Technical Memorandum

Co-Located Chemical Sampling Results at Historical Site Assessment Subarea 8 North and 8 South in Area IV

Santa Susana Field Laboratory
Ventura County, California

Prepared for:

Department of Energy
Energy Technology and Engineering Center
P.O. Box 10300
Canoga Park, California 91309

Prepared by:

CDM Federal Programs Corporation (CDM Smith)

Prepared under:

US Department of Energy
EM Consolidated Business Center
Contract DE-AM09-05SR22404
CDM Task Order DE-AT30-08CC60021/ET17

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I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Prepared by: _____ _____
Margaret Bloisa, P.G. Date
CDM Smith Geologist

Approved by: _____ _____
John Wondolleck Date
CDM Smith Project Manager

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Acronyms and Abbreviations

%D	percent difference/percent drift
%R	percent recovery
mg/L	milligram per liter
ng/L	nanogram per liter
pg/L	picogram per liter
µg/L	micrograms per liter
AOC	Administrative Order on Consent
ASTM	American Society for Testing of Materials
bgs	below ground surface
CDM Smith	CDM Federal Programs Corporation
CoC	chain of custody
DOE	Department of Energy
DPT	direct push technology
DQI	data quality indicator
DQO	data quality objective
DTSC	Department of Toxic Substances Control
DUAR	data usability assessment review
EDL	estimated detection limit
EFH	extractable fuel hydrocarbon
EPA	U.S. Environmental Protection Agency
FTL	field team leader
GRO	gasoline range organics
HGL	HydroGeoLogic, Inc.
HSA	Historical Site Assessment
ICP	inductively coupled plasma
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LLI	Lancaster Laboratories, Inc.
MDL	method detection limit
mL	milliliters
MS	matrix spike
MSD	matrix spike duplicate
NDMA	n-Nitrosodimethylamine
ng/kg	nanogram per kilogram
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, comparability, completeness and sensitivity
PCB	polychlorinated biphenyl
PCT	polychlorinated triphenyl
PID	photoionization detector
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RCRA	Resource Conservation and Recovery Act

RFI	RCRA Facility Investigation
RL	reporting limit
RPD	relative percent difference
SDG	sample delivery group
SIM	selective ion monitoring
SOW	statement of work
SSFL	Santa Susana Field Laboratory
SVOC	semi-volatile organic compound
TM	technical memorandum
TPH	total petroleum hydrocarbon
VOC	volatile organic compound
WP/FSAP	Work Plan/Field Sampling and Analysis Plan

Section 1
Introduction

This Technical Memorandum (TM) presents the results of chemical analyses of surface and subsurface soil, and soil from intermittent drainages collected under the *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM Smith] 2011a) (WP/FSAP) and *Revised Addendum No. 3 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subarea 8N Soil Sampling* (CDM Smith 2011b) (WP/FSAP Addendum) and *Addendum No. 7 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7 and 8 South Soil Sampling* (CDM Smith 2011c).

This TM addresses sampling within U.S. Environmental Protection Agency (EPA) Historical Site Assessment (HSA) Subarea 8 North and 8 South of Area IV at Santa Susana Field Laboratory (SSFL) and provides a description of the sampling activities, the analytical results, and a discussion of the analytical data review findings. The TM does not provide an interpretation of the results. The data provided in this TM are intended to be combined with data collected under the prior Resource Conversation and Recovery Act (RCRA) Facility Investigation (RFI) efforts within the Area IV soil chemical database. A data gap analysis will be performed to assess the adequacy of Area IV data as a whole in defining the nature and extent of chemicals in soil for purposes of remedy determination.

1.1 Co-Located Soil Chemical Sampling Objectives

The radiological characterization study being performed by EPA includes collection of surface and subsurface soil, as well as drainage soil samples throughout Area IV of SSFL and the Northern Buffer Zone for analysis of radionuclides. The California Department of Toxic Substances Control (DTSC) and Department of Energy (DOE) agreed in the *Administrative Order on Consent for Remedial Action (AOC,* Docket Number HSA-CO 10/11-037) (DTSC 2010) that soil/sediment samples collected by EPA to also be analyzed for chemical analytes. EPA's contractor, Hydrogeologic, Inc. (HGL) was responsible for the collection of the EPA-proposed soil samples. DTSC and DOE agreed that the chemical analyses of the soil samples provided by EPA would be done by DOE's contractor, CDM Smith. CDM Smith was responsible for the management, shipment, and laboratory analyses of the samples collected for chemical analyses.

The AOC was signed by DTSC and DOE on December 6, 2010. The AOC is a legally binding order that requires and describes the characterization of Area IV and Northern Buffer Zone soils/sediments and further defines DOE's obligations in relation to radiologic and chemical cleanup of soils within these areas. It also stipulates that during Phase 1 of the chemical investigation activities, DOE is to analyze soil samples for chemical constituents at locations where EPA collects a sample for radiological analysis.

1.2 Basis for the HSA Subarea 5A Soil Sampling

HGL's *Field Sampling Plan for Soil Sampling, Area IV Radiological Study, Santa Susana Field Laboratory, Ventura County, California* (HGL 2010) includes a description of the project objectives, the scope of

work, laboratory analytical suites, sample collection and other standard field operation methods for EPA's radiological characterization study.

The *Subarea 8 North and 8 South FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study* (HGL 2011) was prepared by HGL to support the soil sampling field implementation program specific to Subarea 8 North and 8 South. The addendum provides the technical justification for location of the drainage, surface, and subsurface soil samples in Subarea 8 North and 8 South. CDM Smith obtained split soil samples for chemical analysis at each location where HGL collected soil samples for radionuclides analyses.

1.3 Geology

Subarea 8 North is predominately within the Chatsworth Formation and the Santa Susana Formation while Subarea 8 South is predominately in the Santa Susana Formation. The Chatsworth Formation is predominantly sandstone interbedded with siltstone and shale and the Santa Susana Formation is a greenish-brown siltstone interbedded with limestone. The overlaying native soils encountered in this area range from clayey sand and silts to clay mottled with calcium carbonate nodules with increasing depth. Disturbed locations comprise fill soils of unknown origin and debris such as concrete, asphalt, and quartzite gravel. The observed contact with the bedrock formations within Subarea 8 North and 8 South occurs between one and ten feet below ground surface (bgs).

Additional information regarding the geology in Area IV can be found in Volume I of *Group 8 – Western Portion of Area IV RCRA Facility Investigation Report Santa Susana Field Laboratory, Ventura County, California* (CH2M Hill 2007).

1.4 Technical Memorandum Organization

This TM includes the following sections:

- **Section 1 - Introduction** – Summarizes the basis and objectives of the co-located soil sampling in Subareas 8 North and 8 South
- **Section 2 - Field Sampling and Analytical Methods** – Provides details regarding field sampling procedures and laboratory analytical methods
- **Section 3 - Soil Sample Analytical Results** – Provides a summary of detected analytical results for each chemical; the appendices provide the overall results
- **Section 4 - Data Usability Assessment** – Discusses the results of the data review and validation processes
- **Section 5 - References**

Section 2

Field Sampling and Analytical Methods

Soil samples at surface and drainage locations in Subarea 8 North were collected from April 11, 2011 through April 21, 2011. Subsurface sampling was performed from April 21 through May 13, 2011 and on May 26 and 27, and June 6, 9, and 10, 2011. Locations SL-051, -054, -058, -059, -063, and -073 within the Former Sodium Disposal Facility excavation were sampled on June 17 and 20, 2011. All soil sample locations are shown on Figure 2-1.

Soil samples at surface and drainage locations in Subarea 8 South were collected from September 29, 2011 through September 30, 2011. Subsurface sampling was performed from October 20, 2011 through December 2, 2011. Locations SL-009, 010 and 012 within potentially contaminated areas from open storage activity conducted at the Former Sodium Disposal Facility were sampled from November 16, 2011 to November 18, 2011. All soil sample locations are shown on Figure 2-2.

Table 2-1 (8 North) and Table 2-2 (8 South) provide the rationale for sampling each location, sample number and date of collection for the soil samples; location description; description of any fill materials encountered; reasons for not sampling some of the locations proposed by EPA; and the required analytical protocol.

All soil sampling equipment described in Sections 2.1 and 2.2 that came into contact with sample materials was decontaminated prior to sample collection in accordance with the WP/FSAP.

2.1 Surface and Drainage Sampling

Surface soil and drainage samples in Subarea 8 North and 8 South were collected from the ground surface to 6 inches bgs. The surface of the sample area was prepared by HGL sampling personnel by removing leaves, grass, and any other surface debris. Surface samples to be analyzed for semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs)/polychlorinated triphenyls (PCTs) were collected first using a slide hammer equipped with a 2-inch diameter and 6-inch long stainless steel sample liner. The sampler was pounded into the soil until its top was flush with the ground surface and then removed from the soil. The sample sleeve was removed from the sampler and both ends capped with a Teflon® liner and a plastic cap.

The soil sample for the remaining analytes was collected from a circular hole, approximately 12 inches in diameter to a depth of 6 inches bgs, using a stainless steel trowel and transferred to a stainless steel bowl and homogenized. Debris, wood, or other materials larger than 0.25 inches were removed prior to homogenization. After homogenization, the sample was placed into one or more 16-ounce glass jars. Adhesive sample labels, completed with all sampling information, were affixed to both the sample sleeves and jars. All sleeves and jars were placed into plastic baggies, and placed in a cooler with double bagged ice.

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Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 8 North Sample Locations

Santa Susana Field Laboratory
Ventura County, California
Figure 2-1

0 50 100 200 300 400 Feet

CDM Smith

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N

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 8 South Sample Locations

Santa Susana Field Laboratory
Ventura County, California
Figure 2-2

0 50 100 200 300 400 Feet

CDM Smith

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Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	1	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	None indicated	4/11/2011	Primary & Glycols	SL-001-SA8N-SS-0.0-0.5
Subsurface	1	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	10.0	None indicated	5/26/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-001-SA8N-SB-4.5 SL-001-SA8N-SB-4.0-5.0 SL-001-SA8N-SB-9.0-10.0
Surface	2	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	None indicated	4/11/2011	Primary & Glycols	SL-002-SA8N-SS-0.0-0.5
Subsurface	2	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	10.0	None indicated	5/26/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-002-SA8N-SB-4.5MS SL-002-SA8N-SB-4.0-5.0MS SL-002-SA8N-SB-9.0-10.0
Surface	3	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	None indicated	4/11/2011	Primary & Glycols	SL-003-SA8N-SS-0.0-0.5
Subsurface	3	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	10.0	None indicated	5/27/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-003-SA8N-SB-4.5 SL-003-SA8N-SB-4.0-5.0 SL-003-SA8N-SB-9.0-10.0
Surface	4	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	"trace gravel"	4/11/2011	Primary & Glycols/Energetics	SL-004-SA8N-SS-0.0-0.5
Subsurface	4	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	10.0	"25% medium angular gravel (fill rock)" from 1.0-2.0 ft	4/21/2011	VOCs/Dioxane Primary & Glycols/Energetics	SL-004-SA8N-SB-4.5 SL-004-SA8N-SB-4.0-5.0 SL-004-SA8N-SB-9.0-10.0
Surface	5	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	None indicated	4/11/2011	Primary & Glycols/Energetics	SL-005-SA8N-SS-0.0-0.5
Subsurface	5	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	9.0	None indicated	4/21/2011	VOCs/Dioxane Primary & Glycols/Energetics	SL-005-SA8N-SB-4.5 SL-005-SA8N-SB-4.0-5.0 SL-005-SA8N-SB-8.0-9.0
Surface	6	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	0.5	None indicated	4/11/2011	Primary & Glycols/Energetics	SL-006-SA8N-SS-0.0-0.5
Subsurface	6	ESADA Area Building 4820	Possible uranium contamination from zirconium-hydride fuel pellets used in impact testing.	9.0	"15% fine angular gravel" from 0 to 1 ft	4/21/2011	VOCs/Dioxane Primary & Glycols/Energetics	SL-006-SA8N-SB-4.5 SL-006-SA8N-SB-4.0-5.0 SL-006-SA8N-SB-8.0-9.0
Surface	7	ESADA Area Building 4314	Geophysical anomaly "Magnetometer".	0.5	None indicated	4/11/2011	Primary & Glycols	SL-007-SA8N-SS-0.0-0.5
Subsurface	7	ESADA Area Building 4314	Geophysical anomaly "Magnetometer".	10.0	None indicated	4/22/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-007-SA8N-SB-4.5 SL-007-SA8N-SB-4.0-5.0 SL-007-SA8N-SB-9.0-10.0
Surface	8	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	0.5	None indicated	4/11/2011	Primary & Glycols	SL-008-SA8N-SS-0.0-0.5
Subsurface	8	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	10.0	None indicated	5/26/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-008-SA8N-SB-4.5 SL-008-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-9.0-10.0
Surface	9	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	0.5	None indicated	4/11/2011	Primary & Glycols/Energetics	SL-009-SA8N-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	9	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	1.0	"trace fine gravel"	No sample collected due to shallow refusal	NA	NA
Surface	10	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	0.5	None indicated	4/11/2011	Primary & Secondary	SL-010-SA8N-SS-0.0-0.5
Subsurface	10	ESADA Area Building 4314	Geophysical anomaly "Conductivity".	10.0	None indicated	4/22/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-010-SA8N-SB-4.5 SL-010-SA8N-SB-4.0-5.0 SL-010-SA8N-SB-9.5 SL-010-SA8N-SB-9.0-10.0
Surface	11	ESADA Area north of Building 4314	Location of an aerial photography feature "Container".	0.5	None indicated	4/11/2011	Primary & Secondary	SL-011-SA8N-SS-0.0-0.5
Subsurface	11	ESADA Area north of Building 4315	Location of an aerial photography feature "Container".	10.0	"trace concrete" from 0 to 2.5 ft	4/22/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-011-SA8N-SB-4.5 SL-011-SA8N-SB-4.0-5.0 SL-011-SA8N-SB-9.5 SL-011-SA8N-SB-9.0-10.0
Surface	12	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	0.5	None indicated	4/12/2011	Primary & Secondary	SL-012-SA8N-SS-0.0-0.5
Subsurface	12	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	7.0	None indicated	5/2/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-012-SA8N-SB-4.5 SL-012-SA8N-SB-4.0-5.0
Surface	13	ESADA Area east of Building 4814	Location of an aerial photography feature "Trench".	0.5	None indicated	4/11/2011	Primary & Glycols	SL-013-SA8N-SS-0.0-0.5MS
Subsurface	13	ESADA Area east of Building 4814	Location of an aerial photography feature "Trench".	3.0	"5% fine gravel" from 0 to 1 ft	4/29/2011	VOCs/Dioxane Primary & Glycols	SL-013-SA8N-SB-2.5 SL-013-SA8N-SB-2.0-3.0
Surface	14	ESADA Area west of Building 4814	Location of an aerial photography feature "Trench".	0.5	None indicated	4/11/2011	Primary & Glycols	SL-014-SA8N-SS-0.0-0.5
Subsurface	14	ESADA Area west of Building 4814	Location of an aerial photography feature "Trench".	5.0	None indicated	4/29/2011	VOCs/Dioxane Primary & Glycols	SL-014-SA8N-SB-4.5 SL-014-SA8N-SB-4.0-5.0
Surface	15	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	0.5	None indicated	4/12/2011	Primary & Glycols	SL-015-SA8N-SS-0.0-0.5
Subsurface	15	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	6.0	None indicated	5/3/2011	VOCs/Dioxane Primary & Glycols	SL-015-SA8N-SB-4.5MS SL-015-SA8N-SB-4.0-5.0MS
Surface	16	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	0.5	None indicated	4/12/2011	Primary & Glycols	SL-016-SA8N-SS-0.0-0.5
Subsurface	16	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Trench".	4.0	None indicated	5/3/2011	VOCs/Dioxane Primary & Glycols	SL-016-SA8N-SB-3.5 SL-016-SA8N-SB-3.0-4.0
Surface	17	ESADA Area north of Building 4814	Location of an aerial photography feature "Trench".	0.5	None indicated	4/11/2011	Primary & Glycols	SL-017-SA8N-SS-0.0-0.5
Subsurface	17	ESADA Area north of Building 4814	Location of an aerial photography feature "Trench".	8.0	None indicated	4/29/2011	VOCs/Dioxane Primary & Glycols Primary & Glycols	SL-017-SA8N-SB-4.5 SL-017-SA8N-SB-4.0-5.0 SL-017-SA8N-SB-7.0-8.0

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	18	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation".	0.5	None indicated	4/12/2011	Primary	SL-018-SA8N-SS-0.0-0.5
Subsurface	18	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation".	5.5	None indicated	5/3/2011	VOCs/Dioxane Primary	SL-018-SA8N-SB-4.5 SL-018-SA8N-SB-4.0-5.0
Surface	19	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation".	0.5	None indicated	4/12/2011	Primary & Secondary	SL-019-SA8N-SS-0.0-0.5
Subsurface	19	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation".	5.0	None indicated	5/3/2011	VOCs/Dioxane/GRO Primary & Secondary	SL-019-SA8N-SB-4.5 SL-019-SA8N-SB-4.0-5.0
Surface	20	ESADA Area south of the Arness Fire Road	Aerial photo feature "Excavation". Underground Piping Building 4814 to Former Sodium Disposal Facility.	0.5	None indicated	4/12/2011	Primary & Secondary	SL-020-SA8N-SS-0.0-0.5
Subsurface	20	ESADA Area south of the Arness Fire Road	Aerial photo feature "Excavation". Underground Piping Building 4814 to Former Sodium Disposal Facility.	9.0	None indicated	5/3/2011	VOCs/Dioxane/GRO Primary & Secondary VOCs/Dioxane/GRO Primary & Secondary	SL-020-SA8N-SB-4.5 SL-020-SA8N-SB-4.0-5.0 SL-020-SA8N-SB-9.5 SL-020-SA8N-SB-9.0-10.0
Surface	21	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation and Ground Scar".	0.5	None indicated	4/12/2011	Primary & Secondary	SL-021-SA8N-SS-0.0-0.5
Subsurface	21	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation and Ground Scar".	10.0	None indicated	5/4/2011	VOCs/Dioxane/GRO Primary & Secondary VOCs/Dioxane/GRO Primary & Secondary	SL-021-SA8N-SB-4.5 SL-021-SA8N-SB-4.0-5.0 SL-021-SA8N-SB-9.5 SL-021-SA8N-SB-9.0-10.0
Surface	22	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation, Ground Scar, Trench".	0.5	None indicated	4/12/2011	Primary & Secondary	SL-022-SA8N-SS-0.0-0.5
Subsurface	22	ESADA Area south of the Arness Fire Road	Location of an aerial photography feature "Excavation, Ground Scar, Trench".	10.0	None indicated	5/2/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-022-SA8N-SB-4.5 SL-022-SA8N-SB-4.0-5.0 SL-022-SA8N-SB-9.5 SL-022-SA8N-SB-9.0-10.0
Surface	23	ESADA Area west of Building 4425	Location of an aerial photography feature "Trench".	0.5	None indicated	4/12/2011	Primary	SL-023-SA8N-SS-0.0-0.5
Subsurface	23	ESADA Area west of Building 4425	Location of an aerial photography feature "Trench".	10.0	None indicated	5/2/2011	VOCs/Dioxane Primary Primary	SL-023-SA8N-SB-4.5 SL-023-SA8N-SB-4.0-5.0 SL-023-SA8N-SB-9.0-10.0
Surface	27	ESADA Area west of Building 4425	Location of an aerial photography feature "Trench" and Geophysical anomaly "Magnetometer".	0.5	"5% gravel"	4/13/2011	Primary TPH only	SL-027-SA8N-SS-0.0-0.5MS SL-027-SA8N-SS-0.0-0.5
Subsurface	27	ESADA Area west of Building 4425	Location of an aerial photography feature "Trench" and Geophysical anomaly "Magnetometer".	10.0	None indicated	4/26/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-027-SA8N-SB-4.5 SL-027-SA8N-SB-4.0-5.0 SL-027-SA8N-SB-9.5 SL-027-SA8N-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	28	ESADA Area east of Building 4318	Geophysical anomaly "Magnetometer and Conductivity".	0.5	"trace sandstone + charcoal cobbles (2-3"), iron ring found, wire"	4/13/2011	Primary & TPH	SL-028-SA8N-SS-0.0-0.5
Subsurface	28	ESADA Area east of Building 4318	Geophysical anomaly "Magnetometer and Conductivity".	10.0	"trace fine angular gravel, trace charcoal" from 0 to 2 ft	4/26/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-028-SA8N-SB-4.5 SL-028-SA8N-SB-4.0-5.0 SL-028-SA8N-SB-9.5 SL-028-SA8N-SB-9.0-10.0
Surface	32	ESADA Area east of Building 4318	Geophysical anomaly "Magnetometer and Conductivity" and elevated gamma readings.	0.5	"5% gravel fill"	4/13/2011	Primary & TPH	SL-032-SA8N-SS-0.0-0.5
Subsurface	32	ESADA Area east of Building 4318	Geophysical anomaly "Magnetometer and Conductivity" and elevated gamma readings.	10.0	None indicated	4/27/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-032-SA8N-SB-4.5 SL-032-SA8N-SB-4.0-5.0 SL-032-SA8N-SB-9.5 SL-032-SA8N-SB-9.0-10.0
Surface	36	ESADA Area west of Building 4425	Geophysical anomaly "Magnetometer and Conductivity".	0.5	None indicated	4/12/2011	Primary & TPH	SL-036-SA8N-SS-0.0-0.5
Subsurface	36	ESADA Area west of Building 4425	Geophysical anomaly "Magnetometer and Conductivity".	10.0	None indicated	4/25/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-036-SA8N-SB-4.5 SL-036-SA8N-SB-4.0-5.0 SL-036-SA8N-SB-9.5 SL-036-SA8N-SB-9.0-10.0
Surface	40	ESADA Area south of Building 4425	Geophysical anomaly "Magnetometer and Conductivity" and elevated gamma readings.	0.5	"10% rock fragments (sandstone and asphalt)"	4/14/2011	Primary & TPH	SL-040-SA8N-SS-0.0-0.5
Subsurface	40	ESADA Area south of Building 4425	Geophysical anomaly "Magnetometer and Conductivity" and elevated gamma readings.	10.0	"trace asphalt" from 0 to 1.6 ft	4/29/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-040-SA8N-SB-4.5MS SL-040-SA8N-SB-4.0-5.0MS SL-040-SA8N-SB-9.5 SL-040-SA8N-SB-9.0-10.0
Subsurface	41	ESADA Area west of Building 4425	Potential radiological contamination below concrete drainage ditch.	10.0	None indicated	4/28/2011	VOCs/Dioxane/GRO Primary & TPH GRO only Primary & TPH	SL-041-SA8N-SB-4.5 SL-041-SA8N-SB-4.0-5.0 SL-041-SA8N-SB-9.5 SL-041-SA8N-SB-9.0-10.0
Drainage	46	ESADA Area west of Building 4425	Accumulated sediment within concrete drainage ditch.	0.5	None indicated	4/13/2011	Primary & TPH	SL-046-SA8N-SS-0.0-0.5
Drainage	47	ESADA Area drainage ditch south of the Arness Fire Road	Accumulated sediment in drainage south of Former Sodium Disposal Facility.	0.5	None indicated	4/12/2011	Primary & Secondary	SL-047-SA8N-SS-0.0-0.5
Drainage	48	ESADA Area drainage ditch south of the Arness Fire Road	Accumulated sediment in drainage south of Former Sodium Disposal Facility.	0.5	black plastic net/mesh in drainage"	4/12/2011	Primary & Glycols	SL-048-SA8N-SS-0.0-0.5
Surface	49	ESADA Area north of Building 4814	Underground piping transported waste sodium from Building 4814 to Former Sodium Disposal Facility.	0.5	None indicated	4/11/2011	Primary & Secondary	SL-049-SA8N-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	49	ESADA Area north of Building 4814	Underground piping transported waste sodium from Building 4814 to Former Sodium Disposal Facility.	9.0	None indicated	4/29/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-049-SA8N-SB-4.5 SL-049-SA8N-SB-4.0-5.0 SL-049-SA8N-SB-8.5 SL-049-SA8N-SB-8.0-9.0
Surface	50	ESADA Area north of Building 4814	Underground piping transported waste sodium from Building 4814 to Former Sodium Disposal Facility.	0.5	None indicated	4/12/2011	Primary & Glycols	SL-050-SA8N-SS-0.0-0.5
Subsurface	50	ESADA Area north of Building 4814	Underground piping transported waste sodium from Building 4814 to Former Sodium Disposal Facility.	10.0	None indicated	5/2/2011	VOCs/Dioxane Primary/Glycols Primary/Glycol	SL-050-SA8N-SB-4.5 SL-050-SA8N-SB-4.0-5.0 SL-050-SA8N-SB-9.0-10.0
Subsurface	51	Former Sodium Disposal Facility	Former concrete pool at Former Sodium Disposal Facility Building 4886.	8.8	" subangular quartzite gravel 3/4 diamter" at 3 ft	6/17/2011	VOCs/Dioxane Primary	SL-051-SA8N-SB-8.0 SL-051-SA8N-SB-7.5-8.5
Subsurface	54	Former Sodium Disposal Facility	Area of former Upper Pond	0.5	None indicated	6/17/2011	VOCs/Dioxane	SL-054-SA8N-SB-7.5
Surface	56	Former Sodium Disposal Facility	Conductivity anomaly, historical photographs, aerial photo feature "Trench".	0.5	"trace gravel"	4/18/2011	Primary & Secondary	SL-056-SA8N-SS-0.0-0.5
Subsurface	56	Former Sodium Disposal Facility	Conductivity anomaly, historical photographs, aerial photo feature "Trench".	9.0	None indicated	5/5/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-056-SA8N-SB-4.5 SL-056-SA8N-SB-4.0-5.0 SL-056-SA8N-SB-7.5 SL-056-SA8N-SB-7.0-8.0
Surface	57	Former Sodium Disposal Facility	Aerial photo feature "Surface Water Diversion Trench".	0.5	None indicated	4/18/2011	Primary & Secondary	SL-057-SA8N-SS-0.0-0.5
Subsurface	57	Former Sodium Disposal Facility	Aerial photo feature "Surface Water Diversion Trench".	8.0	None indicated	5/5/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-057-SA8N-SB-4.5 SL-057-SA8N-SB-4.0-5.0 SL-057-SA8N-SB-7.5 SL-057-SA8N-SB-7.0-8.0
Subsurface	58	Former Sodium Disposal Facility	Aerial photo feature "Surface Water Diversion Trench" and geophysical anomaly "Conductivity".	7.5	None indicated	6/17/2011	VOCs/Dioxane	SL-058-SA8N-SB-7.0
Subsurface	59	Former Sodium Disposal Facility	Aerial photo feature "Surface Water Diversion Trench".	7.5	"trace gravel fill" from 2 to 5 ft	6/17/2011	VOCs/Dioxane	SL-059-SA8N-SB-9.0
Surface	62	Former Sodium Disposal Facility	Magnetometer anomaly in former Lower Pond.	0.5	None indicated	4/15/2011	Primary & Secondary	SL-062-SA8N-SS-0.0-0.5
Subsurface	62	Former Sodium Disposal Facility	Magnetometer anomaly in former Lower Pond.	7.5	"trace gravel fill rocks" from 0 to 7.5 ft	5/5/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-062-SA8N-SB-4.5 SL-062-SA8N-SB-4.0-5.0
Subsurface	63	Former Sodium Disposal Facility	Former Lower Pond.	6.5	None indicated	6/17/2011	VOCs/Dioxane	SL-063-SA8N-SB-6.5
Surface	67	Former Sodium Disposal Facility	Geophysical anomaly "Magnetometer and Conductivity".	0.5	None indicated	4/15/2011	Primary & Secondary	SL-067-SA8N-SS-0.0-0.5
Subsurface	67	Former Sodium Disposal Facility	Geophysical anomaly "Magnetometer and Conductivity".	5.5	None indicated	5/4/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-067-SA8N-SB-4.5 SL-067-SA8N-SB-4.0-5.0
Surface	71	West of the Former Sodium Disposal Facility	Historical photograph.	0.5	None indicated	4/18/2011	Primary & Secondary	SL-071-SA8N-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	71	West of the Former Sodium Disposal Facility	Historical photograph.	2.8	None indicated	6/7/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-071-SA8N-SB-2.5 SL-071-SA8N-SB-2.0-3.0
Subsurface	73	Former Sodium Disposal Facility	Previous excavation.	5.0	None indicated	6/20/2011	VOCs/Dioxane	SL-073-SA8N-SB-5.0
Surface	75	Former Sodium Disposal Facility	Geophysical anomaly "Magnetometer".	0.5	"trace gravel fill fragments"	4/19/2011	Primary & Secondary	SL-075-SA8N-SS-0.0-0.5
Subsurface	75	Former Sodium Disposal Facility	Geophysical anomaly "Magnetometer".	1.5	"20% fine to medium angular gravel"	No sample collected due to shallow refusal	NA	NA
Surface	76	Former Sodium Disposal Facility downgradient of Outfall 5	Previous excavation.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-076-SA8N-SS-0.0-0.5
Subsurface	76	Former Sodium Disposal Facility downgradient of Outfall 5	Previous excavation.	8.5	None indicated	6/8/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-076-SA8N-SB-4.5MS SL-076-SA8N-SB-4.0-5.0MS SL-076-SA8N-SB-8.0 SL-076-SA8N-SB-7.5-8.5
Drainage	77	Former Sodium Disposal Facility downgradient of Outfall 6	Sediment downgradient of Outfall 006.	0.5	"10% gravel fill"	4/19/2011	Primary & Secondary	SL-077-SA8N-SS-0.0-0.5
Surface	78	Former Sodium Disposal Facility	Aerial photo feature "Excavation" and geophysical anomaly "Magnetometer".	0.5	"trace fill gravel"	4/14/2011	Primary & Secondary	SL-078-SA8N-SS-0.0-0.5
Subsurface	78	Former Sodium Disposal Facility	Aerial photo feature "Excavation" and geophysical anomaly "Magnetometer".	6.0	"trace angular medium gravel (fill rock)" from 0 to 4.5 ft	5/9/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-078-SA8N-SB-4.5 SL-078-SA8N-SB-4.0-5.0
Surface	79	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	0.5	None indicated	4/14/2011	Primary & Secondary	SL-079-SA8N-SS-0.0-0.5
Subsurface	79	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	10.0	None indicated	6/6/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-079-SA8N-SB-4.5 SL-079-SA8N-SB-4.0-5.0 SL-079-SA8N-SB-9.5 SL-079-SA8N-SB-9.0-10.0
Surface	80	Former Sodium Disposal Facility	Geophysical anomaly "Conductivity", historical photos, aerial photos.	0.5	None indicated	4/18/2011	Primary & Secondary	SL-080-SA8N-SS-0.0-0.5
Subsurface	80	Former Sodium Disposal Facility	Geophysical anomaly "Conductivity", historical photos, aerial photos.	6.5	"5% angular fine to medium gravel (fill rock)" from 0 to 2.3 ft	5/4/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-080-SA8N-SB-4.5 SL-080-SA8N-SB-4.0-5.0
Surface	81	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	NA	NA	No sample collected-Archeological site	NA	NA

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	81	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	NA	NA	No sample collected-Archeological site	NA	NA
Surface	82	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	0.5	"5% sandstone rock fragments"	4/14/2011	Primary & Secondary	SL-082-SA8N-SS-0.0-0.5
Subsurface	82	East of the Former Sodium Disposal Facility	Elevated gamma readings and historical photos.	0.7	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	85	West of the Former Sodium Disposal Facility	Past Environmental Data.	0.5	"trace rock fragments (sandstone)"	4/18/2011	Primary & Secondary	SL-085-SA8N-SS-0.0-0.5
Subsurface	85	West of the Former Sodium Disposal Facility	Past Environmental Data.	2.5	"trace gravel"	No sample collected due to shallow refusal	NA	NA
Surface	86	Former Sodium Disposal Facility	Surface water run-off from sodium cleaning process at Building 4886.	0.5	None indicated	4/18/2011	Primary	SL-086-SA8N-SS-0.0-0.5
Subsurface	86	Former Sodium Disposal Facility	Surface water run-off from sodium cleaning process at Building 4886.	7.5	"trace pieces of concrete on surface "1/2"-1")	5/6/2011	VOCs/Dioxane Primary	SL-086-SA8N-SB-7.0 SL-086-SA8N-SB-6.5-7.5
Subsurface	87	Former Sodium Disposal Facility south Of Outfall 7	Geophysical anamoly "Conductivity".	10.0	"trace pink marking paint at 8""	5/9/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-087-SA8N-SB-4.5 SL-087-SA8N-SB-4.0-5.0 SL-087-SA8N-SB-9.5 SL-087-SA8N-SB-9.0-10.0
Subsurface	88	Former Sodium Disposal Facility south Of Outfall 9	Geophysical anamoly "Conductivity and Ground Penetrating Radar".	4.0	None indicated	5/9/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-088-SA8N-SB-3.5 SL-088-SA8N-SB-3.0-4.0
Drainage	89	East of the Former Sodium Disposal Facility	Sediment in drainage east of the Former Sodium Disposal Facility.	0.5	None indicated	4/14/2011	Primary & Secondary	SL-089-SA8N-SS-0.0-0.5
Drainage	90	East of the Former Sodium Disposal Facility	Sediment in drainage east of the Former Sodium Disposal Facility.	0.5	None indicated	4/14/2011	Primary	SL-090-SA8N-SS-0.0-0.5
Drainage	91	East of the Former Sodium Disposal Facility	Sediment in drainage east of the Former Sodium Disposal Facility.	0.5	None indicated	4/14/2011	Primary	SL-091-SA8N-SS-0.0-0.5
Drainage	92	Drainage on west side of the Former Sodium Disposal Facility	Sediment in drainage downgradient of "Likely Remediation Zone West", Former Sodium Disposal Facility.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-092-SA8N-SS-0.0-0.5
Drainage	93	Drainage on west side of the Former Sodium Disposal Facility	Sediment in drainage downgradient of "Likely Remediation Zone West", Former Sodium Disposal Facility.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-093-SA8N-SS-0.0-0.5
Surface	94	Building 4009	Geophysical anomaly "Conductivity"and Aerial Photo Feature "Fill Area".	0.5	None indicated	4/19/2011	Primary	SL-094-SA8N-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	94	Building 4009	Geophysical anomaly "Conductivity"and Aerial Photo Feature "Fill Area".	8.5	None indicated	5/13/2011	VOCs/Dioxane Primary Primary	SL-094-SA8N-SB-4.5 SL-094-SA8N-SB-4.0-5.0 SL-094-SA8N-SB-7.5-8.5
Surface	95	Building 4009	Geophysical anomaly "Conductivity"and Aerial Photo Feature "Fill Area".	0.5	None indicated	4/19/2011	Primary	SL-095-SA8N-SS-0.0-0.5
Subsurface	95	Building 4009	Geophysical anomaly "Conductivity"and Aerial Photo Feature "Fill Area".	6.0	None indicated	5/13/2011	VOCs/Dioxane Primary	SL-095-SA8N-SB-4.5 SL-095-SA8N-SB-4.0-5.0
Surface	96	Building 4009	Geophysical anomaly "Magnetometer" and Aerial Photo Feature "Fill Area".	0.5	None indicated	4/19/2011	Primary	SL-096-SA8N-SS-0.0-0.5
Subsurface	96	Building 4009	Geophysical anomaly "Magnetometer" and Aerial Photo Feature "Fill Area".	10.0	None indicated	5/13/2011	VOCs/Dioxane Primary Primary	SL-096-SA8N-SB-4.5 SL-096-SA8N-SB-4.0-5.0 SL-096-SA8N-SB-9.0-10.0
Surface	97	Building 4009	Geophysical anomaly "Magnetometer" and Aerial Photo Feature "Fill Area".	0.5	None indicated	4/19/2011	Primary	SL-097-SA8N-SS-0.0-0.5
Subsurface	97	Building 4009	Geophysical anomaly "Magnetometer" and Aerial Photo Feature "Fill Area".	7.0	None indicated	5/12/2011	VOCs/Dioxane Primary	SL-097-SA8N-SB-4.5 SL-097-SA8N-SB-4.0-5.0
Surface	98	Building 4009	Geophysical anomaly "Conductivity" and surface drainage.	0.5	None indicated	4/20/2011	Primary	SL-098-SA8N-SS-0.0-0.5
Subsurface	98	Building 4009	Geophysical anomaly "Conductivity" and surface drainage.	10.0	None indicated	5/12/2011	VOCs/Dioxane Primary Primary	SL-098-SA8N-SB-4.5 SL-098-SA8N-SB-4.0-5.0 SL-098-SA8N-SB-9.0-10.0
SubSurface	99	Building 4009	Geophysical anomaly "Conductivity" and north of the Building 4009 former leach field.	6.0	None indicated	5/12/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-099-SA8N-SB-4.5 SL-099-SA8N-SB-4.0-5.0
Surface	101	North of Building 4009	Former leach field north of Building 4009.	0.5	"trace sandstone rock fragments"	4/20/2011	Primary & Secondary	SL-101-SA8N-SS-0.0-0.5
Subsurface	101	North of Building 4009	Former leach field north of Building 4009.	8.0	None indicated	5/12/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-101-SA8N-SB-4.5 SL-101-SA8N-SB-4.0-5.0 SL-101-SA8N-SB-7.5 SL-101-SA8N-SB-7.0-8.0
Surface	102	North of Building 4009	Former leach field north of Building 4009.	0.5	None indicated	4/20/2011	Primary & Secondary	SL-102-SA8N-SS-0.0-0.5
Subsurface	102	North of Building 4009	Former leach field north of Building 4009.	1.5	None indicated	No sample collected due to shallow refusal	NA	NA
Subsurface	103	North of Building 4009	Former leach field north of Building 4009.	4.0	None indicated	5/12/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-103-SA8N-SB-3.5 SL-103-SA8N-SB-3.0-4.0
Subsurface	104	North of Building 4009	Geophysical anomaly "Manetometer" associated with former leach field.	10.0	None indicated	5/13/2011	VOCs/Dioxane Primary Primary	SL-104-SA8N-SB-4.5 SL-104-SA8N-SB-4.0-5.0 SL-104-SA8N-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	105	Building 4009	Potential radiological contamination from holdup tank on the east side of Building 4009.	7.0	"5% grael fill" from 0 to 1 ft	5/10/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-105-SA8N-SB-4.5 SL-105-SA8N-SB-4.0-5.0
Subsurface	106	West side Building 4009	Potential radiological contamination below concrete drainage ditch.	3.5	None indicated	6/8/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-106-SA8N-SB-3.0 SL-106-SA8N-SB-2.5-3.5
Drainage	108	Building 4009	Accumulated sediment in concrete drainage Building 4009.	0.5	"5% asphalt and concrete pieces (1/4" diameter)"	4/20/2011	Primary & Secondary	SL-108-SA8N-SS-0.0-0.5
Subsurface	109	Building 4009	Potential radiological contamination below concrete drainage ditch.	10.0	"45% sand and weathered concrete" from 0 to 2 ft	6/8/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-109-SA8N-SB-4.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.5 SL-109-SA8N-SB-9.0-10.0
Surface	111	Drainage west of the Building 4056 Landfill	Potential leaching of radioactive contaminants 56 Landfill into drainage. Aerial Photo Feature "Fill Area".	0.5	None indicated	4/21/2011	Primary & Secondary	SL-111-SA8N-SS-0.0-0.5
Subsurface	111	Drainage west of the Building 4056 Landfill	Potential leaching of radioactive contaminants 56 Landfill into drainage. Aerial Photo Feature "Fill Area".	4.0	"trace pieces of brick and sandstone fragments" from 0 to 4 ft	6/10/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-111-SA8N-SB-3.5 SL-111-SA8N-SB-3.0-4.0
Surface	112	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	0.5	None indicated	4/21/2011	Primary & Secondary	SL-112-SA8N-SS-0.0-0.5
Subsurface	112	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	2.5	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	115	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	0.5	None indicated	4/21/2011	Primary & Secondary	SL-115-SA8N-SS-0.0-0.5
Subsurface	115	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	2.3	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	116	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	0.5	None indicated	4/21/2011	Primary & Secondary	SL-116-SA8N-SS-0.0-0.5
Subsurface	116	Drainage west of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	7.2	None indicated	6/9/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-116-SA8N-SB-4.5 SL-116-SA8N-SB-4.0-5.0
Surface	117	Drainage north of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	0.5	"5% rock fragments"	4/21/2011	Primary & Secondary	SL-117-SA8N-SS-0.0-0.5
Subsurface	117	Drainage north of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	1.2	"5% rock fragments (sandstone)"	No sample collected due to shallow refusal	NA	NA

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	118	Drainage north of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	0.5	"20% rock fragments (asphalt, sandstone)"	4/21/2011	Primary & Secondary	SL-118-SA8N-SS-0.0-0.5
Subsurface	118	Drainage north of the Building 4056 Landfill	Geophysical anomaly "Magnetometer and Conductivity". Potential leaching from 56 Landfill into drainage.	1.0	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	119	North of the Building 4056 Landfill	Potential leaching of radioactive contaminants from Building 4056 Landfill into drainage.	0.5	"5% rock fragments-sandstone"	4/21/2011	Primary Secondary	SL-119-SA8N-SS-0.0-0.5MS SL-119-SA8N-SS-0.0-0.5
Subsurface	119	North of the Building 4056 Landfill	Potential leaching of radioactive contaminants from Building 4056 Landfill into drainage.	0.8	"15% sandstone rock fragments"	No sample collected due to shallow refusal	NA	NA
Surface	120	East of the Building 4056 Landfill	Potential leaching of radioactive contaminants from Building 4056 Landfill into drainage.	0.5	"15% rock fragments (sandstone)"	4/20/2011	Primary & Secondary	SL-120-SA8N-SS-0.0-0.5MS
Subsurface	120	East of the Building 4056 Landfill	Potential leaching of radioactive contaminants from Building 4056 Landfill into drainage.	10.0	"trace gravel fill and asphalt" from 1 to 3 ft "trace charcoal pieces" from 3 to 7 ft	5/11/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-120-SA8N-SB-4.5 SL-120-SA8N-SB-4.0-5.0 SL-120-SA8N-SB-9.5 SL-120-SA8N-SB-9.0-10.0
Surface	122	West side of the Former Sodium Disposal Facility	Suspect Potential Gamma Radiation Anomaly	0.5	None indicated	4/19/2011	Primary & Secondary	SL-122-SA8N-SS-0.0-0.5
Subsurface	122	West side of the Former Sodium Disposal Facility	Suspect Potential Gamma Radiation Anomaly	3.0	None indicated	6/7/2011	VOCs/Dioxane/GRO Primary/TPH	SL-122-SA8N-SB-2.5 SL-122-SA8N-SB-2.0-3.0
Surface	125	Drainage west of the Building 4056 Landfill	Suspect Potential Gamma Radiation Anomaly	0.5	10% sandstone rock fragments"	4/21/2011	Primary & Secondary	SL-125-SA8N-SS-0.0-0.5
Subsurface	125	Drainage west of the Building 4056 Landfill	Suspect Potential Gamma Radiation Anomaly	1.4	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	126	Drainage north of the Building 4056 Landfill	Suspect Potential Gamma Radiation Anomaly	0.5	None indicated	4/21/2011	Primary & Secondary	SL-126-SA8N-SS-0.0-0.5
Subsurface	126	Drainage north of the Building 4056 Landfill	Suspect Potential Gamma Radiation Anomaly	1.0	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	127	North of Building 4100	Surface water run-off into Outfall 7 and elevated gamma reading.	0.5	"15% sandstone rock fragments"	4/20/2011	Primary	SL-127-SA8N-SS-0.0-0.5
Subsurface	127	North of Building 4100	Surface water run-off into Outfall 7 and elevated gamma reading.	7.0	"trace gravel fill rocks" from 0 to 2.25 ft	5/10/2011	VOCs/Dioxane/GRO Primary/TPH	SL-127-SA8N-SB-4.5 SL-127-SA8N-SB-4.0-5.0
Surface	128	West of Building 4100	Surface water run-off into Outfall 7.	0.5	None indicated	4/20/2011	Primary	SL-128-SA8N-SS-0.0-0.5
Subsurface	128	West of Building 4100	Surface water run-off into Outfall 7.	3.5	"trace gravel fill" from 0 to 2 ft	5/10/2011	VOCs/Dioxane/GRO Primary/TPH	SL-128-SA8N-SB-3.0 SL-128-SA8N-SB-2.5-3.5
Surface	129	West of Building 4100	Surface water run-off into Outfall 7.	0.5	None indicated	4/20/2011	Primary	SL-129-SA8N-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	129	West of Building 4100	Surface water run-off into Outfall 7.	7.5	None indicated	5/10/2011	VOCs/Dioxane/GRO Primary/TPH	SL-129-SA8N-SB-4.5 SL-129-SA8N-SB-4.0-5.0
Drainage	130	ESADA Area drainage ditch northeast of 4425	Requested during Stakeholder meeting on March 16, 2011 to target accumulated sediment in ditch.	0.5	None indicated	4/14/2011	Primary	SL-130-SA8N-SS-0.0-0.5
Drainage	131	ESADA Area drainage ditch northwest of 4425	Requested during Stakeholder meeting on March 16, 2011 to target accumulated sediment in ditch.	0.5	None indicated	4/12/2011	Primary	SL-131-SA8N-SS-0.0-0.5
Drainage	132	Drainage east of the Former Sodium Disposal Facility Upper Pond	Requested during Stakeholder meeting on March 16, 2011 to target accumulated sediment in ditch.	0.5	"25% gravel fill rock and sandstone"	4/18/2011	Primary & Secondary	SL-132-SA8N-SS-0.0-0.5
Surface	133	East of the Former Sodium Disposal Facility Upper Pond	Stakeholder request - Possible storage area east of the Former Sodium Disposal Facility Upper Pond.	0.5	"metal wire found"	4/14/2011	Primary Secondary	SL-133-SA8N-SS-0.0-0.5 SL-133-SA8N-SS-0.0-0.5MS
Subsurface	133	East of the Former Sodium Disposal Facility Upper Pond	Stakeholder request - Possible storage area east of the Former Sodium Disposal Facility Upper Pond.	8.0	"trace concrete rock fragments and gravel rocks" from 0 to 1.5 ft	6/6/2011	VOCs/Dioxane/GRO Primary/Secondary VOCs/Dioxane/GRO Primary/Secondary	SL-133-SA8N-SB-4.5 SL-133-SA8N-SB-4.0-5.0 SL-133-SA8N-SB-7.5 SL-133-SA8N-SB-7.0-8.0
Surface	134	East of the Former Sodium Disposal Facility Upper Pond	Stakeholder request - Possible storage area east of the Former Sodium Disposal Facility Upper Pond.	0.5	None indicated	4/14/2011	Primary & Secondary	SL-134-SA8N-SS-0.0-0.5
Subsurface	134	East of the Former Sodium Disposal Facility Upper Pond	Stakeholder request - Possible storage area east of the Former Sodium Disposal Facility Upper Pond.	0.8	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	135	Former Sodium Disposal Facility southwest of Outfall 5	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.5	"10% gravel fill with trace sandstone fragments"	4/19/2011	Primary & Secondary	SL-135-SA8N-SS-0.0-0.5
Subsurface	135	Former Sodium Disposal Facility southwest of Outfall 5	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	3.0	"15% fine to coarse subrounded gravel (fill rock)"	5/9/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-135-SA8N-SB-2.5 SL-135-SA8N-SB-2.0-3.0
Surface	136	West of Building 4100	Surface water run-off into Outfall 7.	0.5	"20% rock fragments (sandstone)"	4/20/2011	Primary	SL-136-SA8N-SS-0.0-0.5
Subsurface	136	Southwest of the Building 4056 Excavation	Stakeholder Request - Delineate the edge of the Building 4056 Landfill Chemical Likely Remediation Zone.	10.0	"10% angular gravel" from 0 to 1.2 ft "5% angular gravel from 1.2 to 7 ft	5/11/2011	VOCs/Dioxane Primary Primary	SL-136-SA8N-SB-4.5 SL-136-SA8N-SB-4.0-5.0 SL-136-SA8N-SB-9.0-10.0
Surface	137	East side of the Building 4056 Landfill	Stakeholder Request - Delineate the edge of the Building 4056 Landfill Chemical Likely Remediation Zone.	0.5	"35% gravel fill and sandstone rock fragments"	4/20/2011	Primary	SL-137-SA8N-SS-0.0-0.5
Subsurface	137	East side of Building 4056 Landfill	Stakeholder Request - Delineate the edge of the Building 4056 Landfill Chemical Likely Remediation Zone.	10.0	"trace gravel fill" from 2.25 to 4 ft	5/10/2011	VOCs/Dioxane Primary Primary	SL-137-SA8N-SB-4.5 SL-137-SA8N-SB-4.0-5.0 SL-137-SA8N-SB-9.0-10.0
Surface	138	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-138-SA8N-SS-0.0-0.5MS

Table 2-1
Soil Samples Collected from HSA Subarea 8 North

Sample Type	EPA Location ID	EPA Location Description	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	138	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	1.4	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	139	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-139-SA8N-SS-0.0-0.5
Subsurface	139	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.6	None indicated	No sample collected due to shallow refusal	NA	NA
Surface	140	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.5	None indicated	4/19/2011	Primary & Secondary	SL-140-SA8N-SS-0.0-0.5
Subsurface	140	Former Sodium Disposal Facility southwest of Outfall 6	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	4.0	None indicated	6/7/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-140-SA8N-SB-3.5 SL-140-SA8N-SB-3.0-4.0
Surface	141	Former Sodium Disposal Facility southwest of Outfall 5	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	0.5	None indicated	4/15/2011	Primary & Secondary	SL-141-SA8N-SS-0.0-0.5
Subsurface	141	Former Sodium Disposal Facility southwest of Outfall 5	Stakeholder request - Potential water overflow from Former Sodium Disposal Facility Ponds.	5.0	"trace angular medium to large gravel (fill rock)" from 0 to 2 ft "trace fine gravel from 2 to 5.5 ft	5/9/2011	VOCs/Dioxane/GRO Primary/Secondary	SL-141-SA8N-SB-4.5MS SL-141-SA8N-SB-4.0-5.0MS

Table 2-2
Soil Samples Collected from HSA Subarea 8 South

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	1	Southern most corner of Subarea 8-South.	Aerial photo feature, "Off-site Debris Pile". Potential contamination from associated with off-site debris pile.	5.5	None indicated	11/18/2011	Primary	SL-001-SA8S-SB-4.0-5.0
Surface	1	Southern most corner of Subarea 8-South.	Historical data show elevated levels of radionuclides.	0.5	"small glass fragment" (~3mm)	9/29/2011	Primary	SL-001-SA8S-SS-0.0-0.5
Subsurface	3	West side of Subarea 8-South.	Aerial photo feature, "Off-site Debris Pile". Potential contamination associated with off-site debris pile.	1.0	None indicated Refusal on sandstone	No sampled collected due to shallow refusal < 2.5 ft bgs 11/17/2011	NA	NA
Surface	3	West side of Subarea 8-South.	Historical data show elevated levels of radionuclides.	0.5	None indicated	9/29/2011	Primary	SL-003-SA8S-SS-0.0-0.5MS
Subsurface	5	West side of Subarea 8-South, next the Area IV boundary.	Aerial photo feature, "Off-site Debris Pile". Potential contamination associated with off-site debris pile.	4.8	None indicated Refusal on sandstone	11/16/2011	Primary	SL-005-SA8S-SB-3.5-4.5
Surface	5	West side of Subarea 8-South, next the Area IV boundary.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/29/2011	Primary	SL-005-SA8S-SS-0.0-0.5
Subsurface	7	West side of Subarea 8-South, next to the Area IV boundary.	Historical data show elevated levels of radionuclides . Potential contamination from Open Storage activities associated with the FSDF.	5.1	None indicated Refusal on sandstone	11/16/2011	Primary	SL-007-SA8S-SB-4.0-5.0
Surface	7	West side of Subarea 8-South, next to the Area IV boundary.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/29/2011	Primary	SL-007-SA8S-SS-0.0-0.5
Subsurface	8	West side of Subarea 8-South.	Historical data show elevated levels of radionuclides . Potential contamination from Open Storage activities associated with the FSDF.	3.0	None indicated Refusal on sandstone	11/17/2011	Primary	SL-008-SA8S-SB-2.0-3.0
Surface	8	West side of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-008-SA8S-SS-0.0-0.5
Subsurface	9	West side of Subarea 8-South.	Potential contamination from Open Storage activity conducted at the FSDF.	8.1	"trace quartzite gravel trace CaCO3 deposits" from 1.0 to 2.0 ft Refusal on sandstone	11/16/2011	Primary	SL-009-SA8S-SB-4.0-5.0 SL-009-SA8S-SB-7.0-8.0
Surface	9	West side of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-009-SA8S-SS-0.0-0.5
Subsurface	10	West side of Subarea 8-South.	Potential contamination from Open Storage activity conducted at the FSDF.	9.7	None indicated Refusal on sandstone	11/17/2011	Primary	SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5

Table 2-2
Soil Samples Collected from HSA Subarea 8 South

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	10	West side of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-010-SA8S-SS-0.0-0.5
Subsurface	11	West side of Subarea 8-South.	Potential contamination from Open Storage activities associated with the FSDF.	5.0	"trace quartzite gravel" from 0 to 1.0 ft Refusal on sandstone	11/17/2011	Primary	SL-011-SA8S-SB-4.0-5.0
Surface	11	West side of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-011-SA8S-SS-0.0-0.5
Subsurface	12	West side of Subarea 8-South.	Potential contamination from Open Storage activities associated with the FSDF.	6.2	None indicated Refusal on sandstone	11/18/2011	Primary	SL-012-SA8S-SB-4.0-5.0
Surface	12	West side of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-012-SA8S-SS-0.0-0.5
Subsurface	13	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	7.5	None indicated Refusal on sandstone	11/14/2011	Primary	SL-013-SA8S-SB-4.0-5.0
Surface	13	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/29/2011	Primary	SL-013-SA8S-SS-0.0-0.5
Subsurface	14	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	8.0	"10% fine subangular gravel" from 0 to 3.0 ft Refusal on sandstone	10/21/2011	Primary Primary	SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0
Surface	14	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/29/2011	Primary	SL-014-SA8S-SS-0.0-0.5
Subsurface	15	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	10.0	"quartz crystals ~ 4mm diameter" at 3.0 ft	10/21/2011	Primary	SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0
Surface	15	Northwest portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/29/2011	NA	SL-015-SA8S-SS-0.0-0.5
Subsurface	16	Northern portion of Subarea 8-South, just south of the Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	6.8	None indicated Refusal on sandstone	10/20/2011	Primary	SL-016-SA8S-SB-4.0-5.0
Surface	16	Northern portion of Subarea 8-South, just south of the Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-016-SA8S-SS-0.0-0.5
Subsurface	17	Northwest corner of Subarea 8-South, south of the Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	5.0	None indicated Refusal on sandstone	10/21/2011	Primary Primary	SL-017-SA8S-Sb-4.0-5.0
Surface	17	Northwest corner of Subarea 8-South, south of the Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary Primary	SL-017-SA8S-SS-0.0-0.5

Table 2-2
Soil Samples Collected from HSA Subarea 8 South

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	18	Northwest portion of Subarea 8-South, south of Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	8.5	None indicated Refusal on sandstone	10/21/2011	Primary Primary	SL-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-7.5-8.5
Surface	18	Northwest portion of Subarea 8-South, south of Arness Fire Road.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-018-SA8S-SS-0.0-0.5
Subsurface	19	North central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	6.1	None indicated Refusal on sandstone	12/2/2011	Primary Primary	SL-019-SA8S-SB-4.0-5.0MS
Surface	19	North central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-019-SA8S-SS-0.0-0.5
Subsurface	20	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	10.0	None indicated	12/2/2011	Primary	SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0
Surface	20	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-020-SA8S-SS-0.0-0.5
Subsurface	21	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	10.0	None indicated	12/2/2011	Primary Primary	SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0
Surface	21	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	0.5	None indicated	9/30/2011	Primary	SL-021-SA8S-SS-0.0-0.5
Subsurface	22	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	8.8	None indicated Refusal on sandstone	12/1/2011	Primary Primary	SL-022-SA8S-SB-4.0-5.0 SL-022-SA8S-SB-8.0-9.0
Surface	22	Central portion of Subarea 8-South.	Aerial photo feature, "Off-site Debris Pile". Potential contamination associated with off-site debris pile.	0.5	None indicated	9/30/2011	Primary	SL-022-SA8S-SS-0.0-0.5
Subsurface	23	Central portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	9.8	None indicated Refusal on sandstone	12/1/2011	Primary Primary	SL-023-SA8S-SB-4.0-5.0 SL-023-SA8S-SB-9.0-10.0
Surface	23	Central portion of Subarea 8-South.	Aerial photo feature, "Off-site Debris Pile". Potential contamination associated with off-site debris pile.	0.5	None indicated	9/30/2011	Primary	SL-023-SA8S-SS-0.0-0.5
Subsurface	24	West portion of Subarea 8-South.	Aerial photo feature, "Disturbed Soil".	8.2	None indicated Refusal on sandstone	11/16/2011	Primary Primary	SL-024-SA8S-SB-4.0-5.0 SL-024-SA8S-SB-7.0-8.0
Surface	24	West portion of Subarea 8-South.	Aerial photo feature, "Off-site Debris Pile". Potential contamination from associated with off-site debris pile.	0.5	None indicated	9/29/2011	Primary Primary	SL-024-SA8S-SS-0.0-0.5

FSDF - Former Sodium Disposal Facility
Notes:

All surface and drainage samples were analyzed for primary sample analytes (i.e., SVOCs, PAHs, metals [including mercury], hexavalent chromium, fluoride, PCBs/PCTs, dioxins, perchlorate, pesticides, and herbicides). Selected samples were analyzed for the secondary analytes (i.e., total petroleum hydrocarbons - extractable fuel hydrocarbons [TPH-EFH], TPH-gasoline range organics [TPH-GRO], nitrates, pH, formaldehyde, n-Nitrosodimethylamine [NDMA], energetics, cyanide, terphenyls, glycols, and alcohols) or a subset of them. Selected subsurface samples were also analyzed for volatile organic compounds (VOCs) and 1,4-dioxane.

2.2 Subsurface Sampling

Most of the subsurface soil sampling was performed by a California-licensed direct push technology (DPT) subcontractor under HGL oversight. The majority of the DPT borings in Subarea 8 North and 8 South were advanced to a targeted depth of between approximately 5 and 10 feet bgs. Tables 2-1 and 2-2 provide the actual depths achieved at each location.

Soil cores were collected using the Geoprobe® dual-tube sampling method, which consisted of a 2-inch outer steel drive casing and an inner 1-3/4-inch diameter acetate soil sampling sleeve. After the acetate liner was retracted from the core barrel, it was opened lengthwise with a cutting tool. The core was screened for radioactivity using Micro R (for gamma radiation) and Pancake (for alpha and beta radiation) probes, followed by screening with a photoionization detector (PID). Based on the instrument readings and/or visual evidence of possible contamination, the sample depths were determined. If no elevated radiation or PID readings were indicated, samples were collected from the acetate sleeve by the CDM Smith sampler at the default depths of 4 to 5 feet bgs and 9 to 10 feet bgs.

Soil for VOCs, 1,4-dioxane, and TPH-GRO analyses was collected from the sleeve using EnCore® samplers. Subsurface soil for SVOC, PAH, and PCB/PCT analyses was removed from the acetate sleeve in a manner causing minimal soil disturbance and placed into 16-ounce glass jars. Soil for all other analyses was also placed into 16-ounce glass jars. Adhesive sample labels were completed with all sampling information and affixed to each sample jar, and then placed into plastic baggies. The EnCore® samplers were all placed into one of the bags in which they were received, and the sample label affixed to the outside of the bag. All jars and EnCore® samplers were placed in a cooler with double bagged ice.

Several subsurface locations were not accessible by the Geoprobe® rig; therefore, these borings were advanced using a hand auger. Each location was augered to the target depth of 5 feet bgs. Each foot of augered soil was retrieved to the surface, placed in plastic bags and screened using the Micro R, Pancake, and PID. All borings were sampled by CDM Smith for chemical analyses at approximately 4 to 5 feet bgs, or in some cases at a shallower depth (see Table 2-1 and 2-2). The EnCore® samplers were filled first from the soil placed in the plastic bag, and the jars were then filled from the remaining sample material using a decontaminated stainless steel trowel. This process was repeated at those locations where a deeper sample (i.e., target depth of 9 to 10 feet bgs) could also be collected. Because sampling using a hand auger was not addressed in the FSAP Addendum for Subarea 8 North and 8 South, this sampling method constitutes a variance from the FSAP (see Section 2.7.1).

After all samples were collected from each boring and hand augered hole, the soil cuttings were used to backfill the hole and the hole was topped off with a bentonite chip seal. At locations in asphalt, asphalt patch material was applied on top of the bentonite.

2.3 Sample Handling

All soil samples collected by HGL for chemical analyses were relinquished by the field sampler to CDM Smith's Field Team Leader (FTL). The FTL ensured that the sample labels were completed legibly and correct. Any discrepancies were discussed with the field samplers and corrections to the sample labels were made as needed. All sample labels were covered with clear tape, the sleeves and jars placed back into their plastic baggie, and refrigerated.

All sampling information was recorded onto one or more chain-of-custody (CoC) forms. Each sampler reviewed the CoC and any discrepancies were corrected by the FTL. Each completed CoC was signed by the sampler and the FTL as the individual responsible for release of the samples to the courier. All samples were packed into coolers in accordance with Section 6.4 of the *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Smith 2011a).

2.4 Field Quality Control Procedures

Quality control (QC) samples collected in the field included field duplicates, matrix spike (MS)/matrix spike duplicate (MSD) samples, equipment rinsate blanks, and field blanks. Trip blanks filled with laboratory analyte-free water were sent to the site from the laboratory and were submitted unopened with any samples to be analyzed for VOCs, 1,4-dioxane, and/or TPH-GRO.

2.4.1 Field Duplicates and MS/MSD Samples

Both the field duplicates and MS/MSD samples were collected at a frequency of one per 20 per parent soil sample collected. The field duplicate and MS/MSD samples were also collected from the same location. The duplicate samples were submitted to the laboratory as separate (and blind) from the parent samples. The MS/MSD samples are additional volume of the parent samples collected in triple volume for the DPT subsurface samples; a double volume of soil was sufficient for the surface and hand-augered MS/MSD samples.

For Subarea 8 North, four duplicate/MS/MSD samples were collected in association with the surface samples and analyzed for primary analytes; two of these samples were also analyzed for secondary analytes. A fifth duplicate/MS/MSD sample was analyzed for the primary analytes and glycols only, and a sixth duplicate/MS/MSD sample was analyzed for secondary analytes only.

For the Subarea 8 North subsurface samples, duplicate/MS/MSD samples collected at two locations were analyzed for primary analytes, VOCs/1,4-dioxane, and glycols; at two other locations they were analyzed for primary and secondary analytes, and VOCs/1,4-dioxane. At a fifth location, the duplicate/MS/MSD samples were analyzed for primary analytes, VOCs/1,4-dioxane, and TPH only.

For Subarea 8 South, one duplicate/MS/MSD sample was collected in association with the surface samples and analyzed for primary analytes. All surface samples were collected and analyzed for primary analytes only.

For the Subarea 8 South subsurface samples, two duplicate/MS/MSD samples were collected and analyzed for primary analytes. All subsurface samples were collected and analyzed for primary analytes only.

2.4.2 Equipment Rinsate Blank Samples

Equipment rinsate blanks were prepared and submitted for chemical analysis at a minimum frequency of one per 20 parent soil samples collected for each sampling technique and whenever there were changes in the sample collection procedures, sampling decontamination procedures, or sampling equipment.

For Subarea 8 North, five equipment blanks associated with the surface soil samples were collected and analyzed for the primary surface soil analytes; two of these equipment blanks were also analyzed for the secondary analytes. A sixth equipment blank was analyzed for glycols only and a seventh for secondary analytes only.

For Subarea 8 North, five equipment blanks associated with the subsurface soil samples were collected and analyzed for primary analytes and VOCs/1,4-dioxane. One of these five blanks was also analyzed for glycols only. Two equipment blanks were collected for secondary analyses only.

For Subarea 8 South, one equipment blank associated with the surface soil samples was collected and analyzed for the primary surface soil analytes.

For Subarea 8 South, one equipment blank associated with the subsurface soil samples was collected and analyzed for primary analytes. Two equipment blanks were collected for NDMA only.

2.4.3 Field Blank Samples

Field blanks were to be collected once for each lot number of American Society for Testing and Materials (ASTM) Type II water that HGL used for decontamination. One field blank was collected on April 27, 2011 during the period samples were collected in Subarea 8 North and one field blank sample was collected for Subarea 8 South on September 30, 2011 for NDMA only.

2.4.4 Decontamination of Sampling Equipment

All drilling equipment was cleaned by HGL and their DPT subcontractor before and after completing each boring. This included the sampling device and drill rods. The external surfaces of the equipment were washed with potable water and Alconox, or equivalent laboratory-grade detergent. Equipment was scrubbed until all visible dirt, grime, grease, oil, loose paint, rust flakes, etc., was removed. The equipment was then rinsed with potable water.

Hand sampling equipment used to collect the surface and drainage samples, including shovels, hand trowels, and mixing bowls, were decontaminated as follows:

- Washed with a solution of potable water and Liquinox, or equivalent laboratory-grade detergent
- Rinsed thoroughly with potable water
- Given a final rinse with ASTM Type II water

If the sampling device was not used immediately after being decontaminated, it was wrapped in oil-free aluminum foil, or placed in a closed plastic, stainless steel, glass, or Teflon® container.

2.5 Analytical Laboratory Methods and Procedures

2.5.1 Analytical Methods

The analytical methods for the co-located chemical soil samples were divided into two suites of analyses. The primary suite performed on all samples includes:

- Metals using EPA Methods 6010B/6020, 7471A (mercury), and 7199 (chromium VI)
- Soil pH using EPA Method 9045C
- Fluoride using EPA Method 300.0
- SVOCs using EPA Method 8270C and PAHs using Method 8270C selective ion monitoring (SIM)
- PCBs and PCTs using EPA Method 8082
- Dioxins and furans using EPA Method 1613B
- Perchlorate using EPA Method 314.0 (and EPA Method 6850 for verification of non-detects at a rate of 10 percent of the samples submitted)

Also included as primary analytes for all surface soil samples only are:

- Pesticides using EPA Method 8081A
- Herbicides using EPA Method 8151A

Locations selected for sampling for the secondary suite of analyses were based on several factors including locations with a process history of the specific chemical usage, sample sites with elevated instrument readings, soil fill, waste, or visually contaminated materials. The secondary list of analyses includes:

- Nitrates using EPA Method 300.0
- Formaldehyde using EPA Method 8315A
- TPH-GRO/TPH-EFH/glycols using EPA Method 8015M
- NDMA using EPA Method 1625C
- Energetics using EPA Method 8330A
- Cyanide using EPA Method 9012B
- Alcohols and terphenyls using EPA Method 8015B

All shallow (i.e., target depth of 4 to 5 feet bgs) subsurface soil samples and any deeper subsurface soil samples at locations where both the primary and secondary suites were to be sampled, were also analyzed for:

- EPA Method 8260B for VOCs and
- EPA Method 8260B SIM for 1,4-dioxane

These analyses were also to be performed on samples collected from deeper target depths at locations that were originally proposed for primary analyses only, but that exhibited elevated instrument readings, soil fill, waste, or visually contaminated materials.

2.5.2 Analytical Method Modifications

The analytical laboratory used for the Subarea 8 North and 8 South co-located soil sampling effort was Lancaster Laboratories, Inc. (LLI) of Lancaster, Pennsylvania. LLI was selected by competitive procurement (out of five laboratories that submitted proposals) based on their proposed method detection limits (MDLs). Selection of LLI as the co-located soil analytical laboratory was discussed with the community on October 10, 2010.

The analytical methods identified for the co-located soil sampling were selected to be consistent with the methods used for the RFI. These analytical methods are presented in the *Quality Assurance Project Plan, Santa Susana Field Laboratory RCRA Facility Investigation, Surficial Media Operable Unit* (MECx 2009) (RFI Quality Assurance Project Plan [QAPP]) and are listed in Table 2-3. For the Subarea 8 North and 8 South sampling, CDM Smith also evaluated the RFI QAPP detection limits relative to risk-based soil criteria. There were several instances where risk-based soil values were lower than the RFI QAPP limits. To determine whether the analytical MDL could be lowered, method modifications were discussed with DTSC and LLI chemists at the time of implementation. The ability of the laboratory to achieve project reporting limits (RLs) and QC criteria using these method modifications remains under evaluation by the project chemists. Table 2-3 also identifies methods that have been modified in an effort to lower respective MDLs and RLs.

Table 2-3 Analytical Methods and Method Modifications for Soil

Parameter Group	Analytical Method	Method Modified?
Volatile Organic Compounds	EPA 8260B	No
1,4-Dioxane	EPA 8260B SIM	No
Primary Analytes		
Select SVOCs	EPA 8270C SIM	No
SVOCs	EPA 8270C	No
Metals (including Mercury)	EPA 6010B/6020/7471A	No
Chromium VI	EPA 7199	No
Fluoride	EPA 300.0	No
Perchlorate[1]	EPA 6850	No
Perchlorate	EPA 314.0	No
PCBs/PCTs	EPA 8082	Yes
Pesticides	EPA 8081A	Yes
Herbicides	EPA 8151	Yes
Dioxins/Furans	EPA 1613B	No
Secondary Analytes		
Alcohols	EPA 8015B	Yes
Terphenyls	EPA 8015B	Yes
Glycols	EPA 8015M	Yes
TPH (GRO and EFH)	EPA 8015M	Yes
Formaldehyde	EPA 8315A	Yes
n-Nitrosodimethylamine[2]	EPA 1625C	No
Energetics	EPA 8330A	Yes
Nitrate	EPA 300.0	No
Cyanide	EPA 9012B	No
pH	EPA 9045C	No

[1] Perchlorate by Method EPA 6850 was analyzed on 10 percent of samples analyzed by Method EPA 314.0

[2] n-Nitrosodimethylamine was analyzed by both Methods 8270C and 8270C SIM in addition to 1625C

The method modifications primarily involved increasing the prescribed sample volume (soil mass extracted) and concentrating the resulting extract to a smaller final volume, as follows:

- Method 8082 (PCBs and PCTs) – 60 grams of sample prepared and concentrated 5 fold to a final volume of 2 milliliters (mL)
- Method 8081A (Pesticides) – 60 grams of sample prepared and taken to a final volume of 4 mL (due to extract cleanup techniques)
- Method 8151A (Herbicides) – 60 grams of sample prepared and taken to a final volume of 2 mL
- Method 8330A (Energetics) – 5 grams of sample prepared in 10 mL of solvent
- Method 8315A (Formaldehyde) – 20 grams of sample used to prepare the leachate
- Method 8015M (TPH-EFH) – 60 grams of sample prepared and taken to a final volume of 1 mL
- Method 8015B (Alcohols) – 10 grams of sample prepared and taken to a final volume of 5 mL
- Method 8015M (Glycols) – 10 grams of sample prepared and taken to a final volume of 5 mL
- Method 8015B (Terphenyls) – 60 grams of sample prepared and extract concentrated to a final volume of 5 mL instead of 10 mL

For samples analyzed for glycols, an additional method modification was used. The normal method prescribes water extraction of the soils followed by concentration and then analysis by direct injection of the extract. The extraction procedure was altered by using acetone as the extraction solvent followed by concentration and then direct injection into the gas chromatograph. This modification was developed as a response to observed continuing calibration exceedences that could not be corrected using the standard procedure. These exceedances were due to the analytical column experiencing rapid degradation as a result of injecting water.

In a response to a request by DTSC chemists to verify that LLI was achieving the lower RL, LLI was requested in September, 2011 to analyze additional soil QC samples spiked near the RL to verify their RLs and to evaluate precision and accuracy results. The QC samples consisted of MS and laboratory control samples (LCS) that were spiked at the MRL. LCSs consist of an aliquot of blank matrix (sand) to which known quantities of the method analyte and all preservation compounds are added. The LCS is prepared and analyzed in a similar manner as the sample.

2.6 Data Review Processes

Analytical data produced by LLI were subject to multiple review steps to coincide with the start of distinct tasks. These steps were performed in a timely manner to ensure appropriate feedback and correction of errors. These steps included:

- Cross-reference check of sample CoC documents against the laboratory acknowledgement of sample receipt form. The laboratory acknowledgement of sample receipt was typically transmitted to the data manager via e-mail two to three days after sample receipt and login and includes a summary of the requested analyses to be performed per sample. Sample log-in errors were identified and corrected at this step.
- Tracking of sample collection, receipt, and laboratory sample delivery group (SDG) numbers on a sample tracking spreadsheet. This spreadsheet also includes field QC sample information,

sample location coordinates, and required laboratory deliverables including reports, electronic data deliverables, raw data, and the status of validation.

Upon receipt of the laboratory report (delivered via e-mail), a preliminary review of the data was performed. This review consisted of:

- Reconciliation of the reported analyses against the analyses that were requested on the CoCs.
- Review of the laboratory case narratives. The case narrative identifies and explains quality issues encountered during the analysis of the samples. Quality issues may include (but are not limited to) missed holding times, poor spike recoveries in matrix or batch-specific QC samples, instrument calibration exceedences, and blank contamination. The laboratory consults with the project chemists on these issues and receives instruction on how to proceed before reporting the sample results.
- Review of the laboratory-specific QC data. These data are provided by the laboratory in summary form. Any unanticipated deviations from the project or method-specific criteria are reconciled with the laboratory at this stage.

2.7 Deviations from the WP/FSAP

During the field sampling and analytical programs, modifications from the procedures detailed in the WP/FSAP (CDM Smith 2011b) were required. These deviations and associated resolutions were discussed with the FTL, the Project Manager, and in some cases with the DTSC representative prior to implementation. These deviations are described below.

2.7.1 Field Sampling

Subarea 8 North Table 2-1 indicates a total of 103 locations were to be sampled at one or more depths. Fifteen sample locations were not sampled for subsurface due to shallow refusal at less than 2.5 feet (SL-009, -082, -085, -102,-112, -115, -117, -118, -119, -125, -126, -134, -138, and -139). One location, SL-081, was not sampled for surface or subsurface soils due to archeological findings.

As indicated in Table 2-2 for Subarea 8 South, 21 locations were to be sampled for surface and subsurface depths. One subsurface sample location, SL-003, was not collected due to shallow refusal at 1.0 feet bgs. A surface sample was collected for this location from 0.0 to 0.5 feet bgs. All other locations were collected at surface and subsurface depths and all samples were analyzed for primary analytes per CDM's Addendum No. 6 to the Master WP/FSAP (CDM Smith 2011b).

Pesticide and herbicide analyses were not checked off (i.e., requested) on the CoCs for the Subarea 8 North samples. Therefore, these analyses were not performed.

The following hand augered locations were sampled for VOCs and 1,4 dioxane: SL-001,-002,-003,-008,-058,-059, and -104. Locations were also hand augered and sampled for VOCs, 1,4 dioxane and TPH: SL-0071, -076, -079, -106, -109, -111, -116, -122, -133, and -140. SVOCs were analyzed for all submitted samples as part of the primary analytes.

As mentioned in Section 2.2, subsurface sampling using hand augers was not originally planned in the Master WP/FSAP or FSAP Addendum for Subarea 8 North and 8 South. The planned approach for subsurface sample collection was to obtain soil material from the soil core contained within the

acetate sleeve produced by the DPT rig. Samples for VOC and SVOC analyses were to be collected directly from the core with minimal disturbance to reduce the loss of VOCs and SVOCs. The process of hand augering soil and the subsequent transfer of the sample material into a plastic baggie had the potential for loss of VOCs and SVOCs. Review of the data is ongoing to ascertain whether VOC and SVOC results should be qualified based on changes to the planned sampling procedure. The results of this review will be reported in a future revision of this document.

2.7.2 Analytical

As noted in Section 2.5.2, some analytical methods have been modified for this project. All modifications were discussed with DTSC representatives prior to their implementation. Review of the analytical methods and sample results indicates that the objectives for the project were addressed for all non-modified analyses. All modified analyses are undergoing further studies evaluating the effect of the modifications on precision and accuracy. The RL-LCS and RL-MS QC samples analyzed by LLI are a prime part of these studies. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of these herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for some of the analytes. Data are currently under further review and it is likely that reporting limits may be elevated for some analytes.

Section 3

Area IV Subarea 8 North and 8 South Soil Sampling Results

Because this TM only provides a presentation of the analytical results, data in this section are presented in a summary fashion. Table 3-1 provides a summary of the Subarea 8 North surface and drainage soil data. The tables detail the chemicals analyzed, their associated frequency of detection, the minimum and maximum detected concentrations, the range of observed detection limits and RLs, and the sample location where the maximum concentration of each analyte was detected. When screening criteria are developed to assess the presence/absence of contamination (above/below the applicable criteria) these Subarea 8 North and 8 South data will be combined with RFI data to better define the nature and extent of surface soil contamination throughout Subarea 8 North and 8 South.

Table 3-2 provides the same information for Subarea 8 North subsurface soil data. The tables also indicate at what depth the maximum concentrations were observed. Table 3-3 and provides a summary of the Subarea 8 North combined surface and subsurface datasets.

For Subarea 8 South, Table 3-4 provides a summary of the surface soil data, Table 3-5 provides a summary of the subsurface soil data, and Table 3-6 provides a summary of the combined surface and subsurface datasets.

Appendix A provides tables for all validated data by analytical method and sample location. Data validation qualifier codes and their definitions are presented in these tables. Appendix B provides the summary analytical data reports as received from LLI. Appendix C presents the data usability and assessment report (DUAR), which details specific qualifications of sample results along with all validation reports. Appendix D is the master database of all sample results including the data validation "flags" (qualifiers).

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Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	86 / 86	12000	28100	5.04 - 6.41	20.1 - 25.5	mg/kg	SL-006-SA8N	0 - 0.5
Inorganic	Antimony	7440-36-0	6020	71 / 86	0.0666 J Q, E, Z	87 J Q	0.0595 - 0.0756	0.198 - 0.252	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	86 / 86	3.29	78.4 J Q, E	0.0793 - 0.101	0.397 - 0.504	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Barium	7440-39-3	6020	86 / 86	78.2	213	0.107 - 0.286	0.397 - 1.06	mg/kg	SL-132-SA8N	0 - 0.5
Inorganic	Beryllium	7440-41-7	6020	86 / 86	0.331 J Q	1.08	0.0159 - 0.0202	0.0991 - 0.126	mg/kg	SL-094-SA8N	0 - 0.5
Inorganic	Boron	7440-42-8	6010B	65 / 86	2.16 J Z	23.6	0.892 - 1.13	5.01 - 6.37	mg/kg	SL-027-SA8N	0 - 0.5
Inorganic	Cadmium	7440-43-9	6020	86 / 86	0.119 J Q	1.47	0.0397 - 0.0504	0.0991 - 0.126	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	86 / 86	2180	59500	6.15 - 7.81	20.1 - 25.5	mg/kg	SL-080-SA8N	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	86 / 86	14.3 J #	57.1 J E, #	0.119 - 0.151	0.397 - 0.504	mg/kg	SL-133-SA8N	0 - 0.5
Inorganic	Chromium VI	18540-29-9	7199	50 / 86	0.37 J Q, Z	1.4 J Q	0.2 - 0.26	1 - 1.3	mg/kg	SL-116-SA8N	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	86 / 86	5.05	13.3 J Q	0.0198 - 0.0252	0.0991 - 0.126	mg/kg	SL-094-SA8N	0 - 0.5
Inorganic	Copper	7440-50-8	6020	86 / 86	8.84 J Q	57.3 J E	0.0654 - 0.083	0.397 - 0.503	mg/kg	SL-027-SA8N	0 - 0.5
Inorganic	Cyanide	57-12-5	9012B	6 / 47	0.21 J Z	0.4 J Z	0.18 - 0.23	0.5 - 0.65	mg/kg	SL-116-SA8N	0 - 0.5
Inorganic	Fluoride	16984-48-8	300	78 / 86	1.1 J Q	5.6 J Q	0.81 - 1	1 - 1.3	mg/kg	SL-049-SA8N	0 - 0.5
Inorganic	Iron	7439-89-6	6010B	86 / 86	16300	39800	4.72 - 26.9	20.1 - 114	mg/kg	SL-007-SA8N	0 - 0.5
Inorganic	Lead	7439-92-1	6020	86 / 86	5.91 J Q	9920 J Q	0.0103 - 2.69	0.198 - 51.8	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	86 / 86	13.6	31.1	0.22 - 0.28	2 - 2.5	mg/kg	SL-141-SA8N	0 - 0.5
Inorganic	Magnesium	7439-95-4	6010B	86 / 86	3470	9880	2.55 - 3.24	10 - 12.7	mg/kg	SL-004-SA8N	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	86 / 86	236	491 J #	0.0782 - 0.0994	0.501 - 0.637	mg/kg	SL-023-SA8N	0 - 0.5
Inorganic	Mercury	7439-97-6	7471A	71 / 86	0.0037 J FD, Z	3.77	0.0027 - 0.0153	0.0934 - 0.532	mg/kg	SL-093-SA8N	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	86 / 86	0.241	2.4	0.0496 - 0.063	0.0991 - 0.126	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	86 / 86	10.5 J #	44.8 J Q, #	0.0991 - 0.126	0.397 - 0.504	mg/kg	SL-133-SA8N	0 - 0.5
Inorganic	Nitrate	14797-55-8	300	44 / 47	1 J Z	51.6 J Q	0.81 - 4.6	1.5 - 8.7	mg/kg	SL-078-SA8N	0 - 0.5
Inorganic	Percent Moisture	MOIST	160.3M	86 / 86	1.1	22.3	0.5 - 0.5	0.5 - 0.5	%	SL-077-SA8N	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314	0 / 86	-	-	9.1 - 11.6	30.3 - 38.6	ug/kg		-
Inorganic	Perchlorate	14797-73-0	6850	2 / 11	3.2 J Z	3.8 J Z	2.3 - 2.6	5.4 - 6.2	ug/kg	SL-021-SA8N	0 - 0.5
Inorganic	pH	pH	9045M	86 / 86	5.75	8.47	0.01 - 0.01	0.01 - 0.01	pH unit	SL-009-SA8N	0 - 0.5
Inorganic	Phosphorus	7723-14-0	6010B	86 / 86	265	3620 J E	0.561 - 1.15	10 - 20.5	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Potassium	9/7/7440	6010B	86 / 86	2130 J Q	7430	18 - 22.9	50.1 - 63.7	mg/kg	SL-036-SA8N	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	86 / 86	0.0838 J Z	0.795	0.0397 - 0.0504	0.397 - 0.504	mg/kg	SL-056-SA8N	0 - 0.5
Inorganic	Silver	7440-22-4	6020	86 / 86	0.0146 J Z	0.515	0.0119 - 0.0151	0.0991 - 0.126	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	86 / 86	65 J Z	266	37.4 - 47.5	100 - 127	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Strontium	7440-24-6	6010B	86 / 86	14.7	111	0.0622 - 0.079	0.501 - 0.637	mg/kg	SL-027-SA8N	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	86 / 86	0.177	0.475 J Q	0.0297 - 0.0378	0.0991 - 0.126	mg/kg	SL-032-SA8N	0 - 0.5
Inorganic	Tin	7440-31-5	6010B	0 / 86	-	-	1 - 1.27	10 - 12.7	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	86 / 86	937	1530	0.381 - 0.484	1 - 1.27	mg/kg	SL-046-SA8N	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	86 / 86	29.5 J A	79.4 J Q	0.0218 - 0.0277	0.0991 - 0.126	mg/kg	SL-001-SA8N	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	86 / 86	50 J E	649 J A	0.561 - 2.78	3.01 - 14.9	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	64 / 86	0.929 J Z	7.09	0.842 - 1.07	5.01 - 6.37	mg/kg	SL-027-SA8N	0 - 0.5
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 51	-	-	81 - 100	240 - 300	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 51	-	-	81 - 100	240 - 300	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 51	-	-	81 - 100	120 - 150	ug/kg		-
Misc. Organics	2-Propanol	67-63-0	8015B	1 / 47	340 J Z	340 J Z	100 - 130	510 - 640	ug/kg	SL-108-SA8N	0 - 0.5
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 51	-	-	100 - 130	120 - 150	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 51	-	-	60 - 76	120 - 150	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 51	-	-	81 - 100	120 - 150	ug/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 63	-	-	5.1 - 6.4	13 - 16	mg/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 47	-	-	100 - 130	510 - 640	ug/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 63	-	-	5.1 - 6.4	13 - 16	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	8 / 47	780 J Z	1700 J Z	610 - 1400	1500 - 3400	ug/kg	SL-125-SA8N	0 - 0.5
Misc. Organics	HMX	2691-41-0	8330A	0 / 51	-	-	100 - 130	300 - 380	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	0 / 47	-	-	100 - 130	510 - 640	ug/kg		-
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 47	-	-	1.6 - 3	3.6 - 7.1	mg/kg		-
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 51	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 51	-	-	810 - 1000	2400 - 3000	ug/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 47	-	-	1.6 - 3	3.6 - 7.1	mg/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 51	-	-	810 - 1000	2400 - 3000	ug/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 63	-	-	5.1 - 6.4	13 - 16	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	1 / 47	3 J Z	3 J Z	1.6 - 3	3.6 - 7.1	mg/kg	SL-108-SA8N	0 - 0.5
Misc. Organics	RDX	121-82-4	8330A	0 / 51	-	-	50 - 63	120 - 150	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 51	-	-	62 - 77	120 - 150	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	85 / 86	1.24 J Z	636	0.0224 - 0.272	5 - 6.33	ng/kg	SL-032-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	71 / 86	0.648 J Z	43.8	0.00881 - 0.123	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	30 / 86	0.241 J Z	3.08 J Z	0.0141 - 0.14	5 - 6.33	ng/kg	SL-032-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	52 / 86	0.0936 J Z	5.95	0.0146 - 0.165	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	71 / 86	0.24 J Z	4.98 J Z	0.0121 - 0.135	5 - 6.33	ng/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	73 / 86	0.236 J Z	31.1	0.0153 - 0.173	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	49 / 86	0.0915 J Z	12	0.0109 - 0.115	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	70 / 86	0.176 J Z	14.5	0.0142 - 0.159	5 - 6.33	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	41 / 86	0.185 J Z	2.96 J Z	0.015 - 0.107	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	40 / 86	0.0929 J Z	7.19	0.0118 - 0.158	5 - 6.33	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	67 / 86	0.133 J Z	11.5	0.0103 - 0.198	5 - 6.33	ng/kg	SL-016-SA8N	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	43 / 86	0.154 J Z	21.2	0.0118 - 0.119	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	59 / 86	0.383 J Z	27	0.0116 - 0.196	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	28 / 86	0.0161 J Z	3.11	0.0104 - 0.145	1 - 1.27	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	68 / 86	0.0753 J Z	28.5 Z	0.018 - 0.953	1 - 1.27	ng/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 86	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 86	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 86	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 86	-	-	0.33 - 400	1.7 - 2100	ug/kg		-

Table 3-1
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Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	1 / 86	1700	1700	0.33 - 400	1.7 - 2100	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	69 / 86	0.7 J Z	1500	0.33 - 400	1.7 - 2100	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	58 / 86	0.56 J Z	42	0.39 - 470	1.7 - 2100	ug/kg	SL-116-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 86	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	8 / 86	0.61 J Z	29 J S	0.33 - 400	1.7 - 2100	ug/kg	SL-010-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 86	-	-	1 - 1200	3.3 - 4000	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 86	-	-	1 - 1200	3.3 - 4000	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	50 / 86	1.3 J Z	5100	1 - 1200	3.3 - 4000	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	86 / 86	9.4 J Z	5190 J #	0.0202 - 0.203	10 - 12.7	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	77 / 86	1.18 J Z	75.9	0.017 - 0.123	10 - 12.7	ng/kg	SL-032-SA8N	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	6 / 86	0.96 J Z	2.4	0.7 - 4	1.7 - 10	ug/kg	SL-133-SA8N	0 - 0.5
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 86	-	-	340 - 1900	1000 - 5700	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	1 / 86	510	510	34 - 190	170 - 960	ug/kg	SL-092-SA8N	0 - 0.5
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	14 / 86	0.88 J Z	4 J Z	0.7 - 4	1.7 - 10	ug/kg	SL-091-SA8N	0 - 0.5
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 86	-	-	100 - 570	340 - 1900	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 86	-	-	69 - 380	170 - 960	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 86	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 86	-	-	69 - 380	170 - 960	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C	1 / 1	120 J Z	120 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	2 / 85	1.2 J Z	6.6	0.7 - 4	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	6 / 86	0.51 J Z	1.9 J Z	0.35 - 2	1.7 - 10	ug/kg	SL-108-SA8N	0 - 0.5

Table 3-1
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Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Aniline	62-53-3	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	1 / 1	190 J Z	190 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Anthracene	120-12-7	8270C SIM	23 / 85	0.4 J Z	15	0.35 - 2	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 86	-	-	1200 - 6700	3400 - 19000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	3 / 3	20 J Z	1200	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	39 / 83	0.8 J Z	110	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	1 / 1	1200	1200	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	48 / 85	0.77 J FD, Z	140	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	6 / 6	17 J Z	1500	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	60 / 80	0.96 J Z	220 J C	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	5 / 5	23 J Z	980	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	46 / 81	0.87 J Z	90	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	1 / 1	910	910	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	41 / 85	0.75 J Z	74	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	73 / 73	18 J Z	1000	17 - 86	340 - 1700	ug/kg	SL-048-SA8N	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	2 / 13	41 J FD	56	6.4 - 7.1	19 - 21	ug/kg	SL-119-SA8N	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	3 / 15	20 J Z	26 J L, Z	17 - 86	170 - 860	ug/kg	SL-126-SA8N	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	2 / 71	18 J Z	110	6.3 - 30	19 - 90	ug/kg	SL-108-SA8N	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	2 / 86	21 J Z	110 J Z	17 - 96	170 - 960	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C	7 / 7	21 J Z	1700	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	74 / 79	0.4 J Z	120	0.35 - 2	1.7 - 10	ug/kg	SL-131-SA8N SL-115-SA8N	0 - 0.5 0 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	1 / 1	280 J Z	280 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	9 / 85	0.98 J Z	25	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C	0 / 13	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	1 / 73	8.9 J FD, Q, Z	8.9 J FD, Q, Z	6.3 - 30	19 - 90	ug/kg	SL-119-SA8N	0 - 0.5
Semivolatiles	Dimethylphthalate	131-11-3	8270C	0 / 13	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 73	-	-	6.3 - 30	19 - 90	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	5 / 17	22 J Z	1100	17 - 86	170 - 860	ug/kg	SL-127-SA8N	0 - 0.5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	3 / 69	7.5 J Z	72	6.3 - 7.7	19 - 23	ug/kg	SL-004-SA8N	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	0 / 12	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	9 / 74	9.1 J Z	230	6.3 - 35	19 - 100	ug/kg	SL-108-SA8N	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C	6 / 6	23 J Z	2200	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	60 / 80	0.93 J Z	200	0.7 - 4	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	10 / 86	0.82 J Z	6.3	0.7 - 4	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 86	-	-	69 - 380	170 - 960	ug/kg		-

Table 3-1
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Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	1 / 1	790 J Z	790 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	45 / 85	0.79 J Z	88	0.7 - 4	1.7 - 10	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	44 / 86	0.81 J Z	6.1 J Z	0.7 - 4	1.7 - 10	ug/kg	SL-091-SA8N	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	22 / 47	19.2 J Z	685	17.5 - 337	34.9 - 674	ng/kg	SL-010-SA8N	0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 86	-	-	0.7 - 4	1.7 - 10	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	1 / 86	26 J Z	26 J Z	17 - 96	170 - 960	ug/kg	SL-004-SA8N	0 - 0.5
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 86	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	3 / 3	21 J Z	1200	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	56 / 83	0.76 J Z	110	0.7 - 4	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	0 / 86	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	8 / 8	21 J Z	2600	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	56 / 78	0.89 J Z	170	0.7 - 4	1.7 - 10	ug/kg	SL-131-SA8N	0 - 0.5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	1 / 56	0.48 J Z	0.48 J Z	0.42 - 59	1.2 - 180	mg/kg	SL-049-SA8N	0 - 0.5
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	45 / 56	0.85 J Z	61 J Z	0.42 - 59	1.2 - 180	mg/kg	SL-108-SA8N	0 - 0.5
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	56 / 56	0.7 J Z	640	0.42 - 59	1.2 - 180	mg/kg	SL-117-SA8N	0 - 0.5
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	56 / 56	2.4	2800	0.42 - 59	1.2 - 180	mg/kg	SL-117-SA8N	0 - 0.5
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	0 / 56	-	-	0.42 - 59	1.2 - 180	mg/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	106 / 106	9400	37500	5.21 - 6.94	20.7 - 24.7	mg/kg	SL-032-SA8N	4 - 5
Inorganic	Antimony	7440-36-0	6020	90 / 106	0.0689 J Z	1.9 J Q	0.0614 - 0.0855	0.205 - 0.248	mg/kg	SL-005-SA8N	8 - 9
Inorganic	Arsenic	7440-38-2	6020	106 / 106	2.54 J Q	11.6 J E	0.0819 - 0.0994	0.409 - 0.497	mg/kg	SL-076-SA8N	7.5 - 8.5
Inorganic	Barium	7440-39-3	6020	106 / 106	49.6	204	0.111 - 0.134	0.409 - 0.497	mg/kg	SL-041-SA8N	4 - 5
Inorganic	Beryllium	7440-41-7	6020	106 / 106	0.321 J Q	1.22	0.0164 - 0.0199	0.102 - 0.124	mg/kg	SL-041-SA8N	4 - 5
Inorganic	Boron	7440-42-8	6010B	88 / 106	1.04 J Z	20.2	0.373 - 1.1	5.18 - 6.18	mg/kg	SL-133-SA8N	4 - 5
Inorganic	Cadmium	7440-43-9	6020	99 / 106	0.0449 J Z	0.497	0.0409 - 0.0508	0.102 - 0.124	mg/kg	SL-005-SA8N	4 - 5
Inorganic	Calcium	7440-70-2	6010B	106 / 106	1080	233000	2.67 - 37.9	20.7 - 124	mg/kg	SL-032-SA8N	9 - 10
Inorganic	Chromium	7440-47-3	6020	106 / 106	8.73 J Q	49 J Q, A	0.123 - 0.149	0.409 - 0.497	mg/kg	SL-004-SA8N	4 - 5
Inorganic	Chromium VI	18540-29-9	7199	57 / 106	0.28 J Z	1.5	0.21 - 0.25	1 - 1.2	mg/kg	SL-076-SA8N	7.5 - 8.5
Inorganic	Cobalt	7440-48-4	6020	106 / 106	2.75	17.7 J Q, E, #	0.0205 - 0.0248	0.102 - 0.124	mg/kg	SL-027-SA8N	4 - 5
Inorganic	Copper	7440-50-8	6020	106 / 106	3.91 J Q	94 J E, Q	0.0675 - 0.378	0.409 - 2.29	mg/kg	SL-021-SA8N	4 - 5
Inorganic	Cyanide	57-12-5	9012B	0 / 48	-	-	0.19 - 0.22	0.53 - 0.6	mg/kg		-
Inorganic	Fluoride	16984-48-8	300	104 / 106	1.2 J Q	13.1	0.84 - 0.99	1 - 1.2	mg/kg	SL-017-SA8N	7 - 8
Inorganic	Iron	7439-89-6	6010B	106 / 106	15700	38800	2.8 - 28.7	20.7 - 122	mg/kg	SL-003-SA8N SL-049-SA8N	4 - 5 8 9
Inorganic	Lead	7439-92-1	6020	106 / 106	3.95 J E	115 J Q	0.0106 - 0.0282	0.205 - 0.543	mg/kg	SL-005-SA8N	8 - 9
Inorganic	Lithium	7439-93-2	6010B	106 / 106	15.2	41	0.23 - 0.71	2.1 - 2.5	mg/kg	SL-049-SA8N	8 - 9
Inorganic	Magnesium	7439-95-4	6010B	106 / 106	2990	8580	0.47 - 3.14	10.4 - 12.4	mg/kg	SL-049-SA8N	8 - 9
Inorganic	Manganese	7439-96-5	6010B	106 / 106	115 J E	685 J E	0.0385 - 0.0964	0.518 - 0.618	mg/kg	SL-133-SA8N	4 - 5
Inorganic	Mercury	7439-97-6	7471A	18 / 106	0.0042 J Z	0.031 J Z	0.0028 - 0.0081	0.0973 - 0.122	mg/kg	SL-057-SA8N	4 - 5
Inorganic	Molybdenum	7439-98-7	6020	106 / 106	0.113	1.39 J E	0.0512 - 0.0621	0.102 - 0.124	mg/kg	SL-056-SA8N	4 - 5
Inorganic	Nickel	7440-02-0	6020	106 / 106	5.61 J Q	29.1 J Q, A	0.102 - 0.124	0.409 - 0.497	mg/kg	SL-050-SA8N	4 - 5
Inorganic	Nitrate	14797-55-8	300	47 / 48	1.1 J Z	21.9	0.86 - 0.98	1.6 - 1.8	mg/kg	SL-080-SA8N	4 - 5
Inorganic	Percent Moisture	MOIST	160.3M	109 / 109	4.2	19.5	0.5 - 0.5	0.5 - 0.5	%	SL-036-SA8N	9 - 10
Inorganic	Perchlorate	14797-73-0	314	3 / 106	17.3 J Z	199	9.4 - 11.2	31.3 - 37.3	ug/kg	SL-021-SA8N	4 - 5
Inorganic	Perchlorate	14797-73-0	6850	3 / 10	3.1 J Z	180	2.3 - 2.6	5.4 - 6.2	ug/kg	SL-021-SA8N	4 - 5
Inorganic	pH	pH	9045M	106 / 106	5.39	8.83	0.01 - 0.01	0.01 - 0.01	pH unit	SL-005-SA8N	8 - 9
Inorganic	Phosphorus	7723-14-0	6010B	106 / 106	96	647	0.374 - 0.692	10.4 - 12.4	mg/kg	SL-141-SA8N	4 - 5
Inorganic	Potassium	9/7/7440	6010B	106 / 106	1320 J Q	5720	12.1 - 22.2	51.8 - 61.8	mg/kg	SL-141-SA8N	4 - 5
Inorganic	Selenium	7782-49-2	6020	85 / 106	0.0498 J Z	0.493	0.0409 - 0.067	0.409 - 0.497	mg/kg	SL-103-SA8N	3 - 4
Inorganic	Silver	7440-22-4	6020	102 / 106	0.0133 J Q, E, Z	0.13 J Q	0.0123 - 0.0164	0.102 - 0.124	mg/kg	SL-076-SA8N SL-133-SA8N	7.5 - 8.5 7 8
Inorganic	Sodium	7440-23-5	6010B	106 / 106	61 J Z	699	6.36 - 46.1	104 - 124	mg/kg	SL-017-SA8N	4 - 5
Inorganic	Strontium	7440-24-6	6010B	106 / 106	10.3	268	0.0267 - 0.0766	0.518 - 0.618	mg/kg	SL-032-SA8N	9 - 10
Inorganic	Thallium	7440-28-0	6020	106 / 106	0.179	0.47	0.0307 - 0.0373	0.102 - 0.124	mg/kg	SL-094-SA8N SL-041-SA8N	4 - 5 4 5
Inorganic	Tin	7440-31-5	6010B	0 / 106	-	-	0.342 - 1.24	10.4 - 12.4	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	106 / 106	726	1560	0.0742 - 0.47	1.04 - 1.24	mg/kg	SL-133-SA8N	4 - 5
Inorganic	Vanadium	7440-62-2	6020	106 / 106	21.1 J Q	85.1 J E	0.0225 - 0.0273	0.102 - 0.124	mg/kg	SL-086-SA8N	6.5 - 7.5
Inorganic	Zinc	7440-66-6	6020	106 / 106	35.3	198 J A	0.573 - 1.58	3.07 - 8.44	mg/kg	SL-013-SA8N	2 - 3
Inorganic	Zirconium	7440-67-7	6010B	104 / 106	0.93 J Z	8.41	0.492 - 1.04	5.18 - 6.18	mg/kg	SL-022-SA8N	9 - 10
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 54	-	-	81 - 97	240 - 290	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 54	-	-	81 - 97	240 - 290	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 54	-	-	81 - 97	120 - 140	ug/kg		-
Misc. Organics	2-Propanol	67-63-0	8015B	0 / 48	-	-	110 - 120	540 - 610	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 54	-	-	100 - 120	120 - 140	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 54	-	-	61 - 72	120 - 140	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 54	-	-	81 - 97	120 - 140	ug/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 72	-	-	5.4 - 7.1	11 - 15	mg/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 48	-	-	110 - 120	540 - 610	ug/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 72	-	-	5.4 - 6.2	11 - 15	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	2 / 48	2700	3100	650 - 740	1600 - 1800	ug/kg	SL-109-SA8N	9 - 10
Misc. Organics	HMX	2691-41-0	8330A	0 / 54	-	-	100 - 120	300 - 360	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	0 / 48	-	-	110 - 120	540 - 610	ug/kg		-
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 48	-	-	1.6 - 1.8	3.8 - 4.3	mg/kg		-
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 54	-	-	41 - 48	120 - 140	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 54	-	-	810 - 3600	2400 - 3600	ug/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 48	-	-	1.6 - 1.8	3.8 - 4.3	mg/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 54	-	-	810 - 970	2400 - 2900	ug/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 72	-	-	5.4 - 6.2	11 - 15	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	0 / 48	-	-	1.6 - 1.8	3.8 - 4.3	mg/kg		-
Misc. Organics	RDX	121-82-4	8330A	0 / 54	-	-	51 - 60	120 - 140	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 54	-	-	62 - 74	120 - 140	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	17 / 106	1.27 J Z	33	0.015 - 0.101	5.07 - 6.14	ng/kg	SL-120-SA8N	4 - 5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	13 / 106	0.539 J Z	4.68 J Z	0.00701 - 0.0436	5.07 - 6.14	ng/kg	SL-120-SA8N	4 - 5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	2 / 106	0.404 J Z	0.614 J Z	0.0113 - 0.0558	5.07 - 6.14	ng/kg	SL-021-SA8N	9 - 10
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	24 / 106	0.0155 J Z	0.422 J Z	0.011 - 0.076	5.07 - 6.14	ng/kg	SL-005-SA8N	8 - 9
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	13 / 106	0.227 J Z	1.27 J Z	0.00717 - 0.0604	5.07 - 6.14	ng/kg	SL-137-SA8N	9 - 10
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	21 / 106	0.157 J Z	1.46 J Z	0.0114 - 0.078	5.07 - 6.14	ng/kg	SL-005-SA8N	8 - 9
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	20 / 106	0.0214 J Z	0.956 J Z	0.00671 - 0.0543	5.07 - 6.14	ng/kg	SL-137-SA8N	9 - 10
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	42 / 106	0.0355 J Z	1.68 J Z	0.0108 - 0.0738	5.07 - 6.14	ng/kg	SL-071-SA8N	2 - 3
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	19 / 106	0.0492 J Z	1.47 J Z	0.00821 - 0.0696	5.07 - 6.14	ng/kg	SL-094-SA8N	4 - 5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	30 / 106	0.0196 J Z	0.5 J Z	0.0127 - 0.0692	5.07 - 6.14	ng/kg	SL-135-SA8N	2 - 3
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	31 / 106	0.114 J Z	1.49 J Z	0.00636 - 0.0703	5.07 - 6.14	ng/kg	SL-067-SA8N	4 - 5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	7 / 106	0.091 J Z	1.25 J Z	0.00677 - 0.0582	5.07 - 6.14	ng/kg	SL-137-SA8N	9 - 10
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	10 / 106	0.0491 J Z	1.34 J Z	0.00601 - 0.074	5.07 - 6.14	ng/kg	SL-137-SA8N	9 - 10
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	15 / 106	0.0146 J Z	0.118 J Z	0.013 - 0.0367	1.01 - 1.23	ng/kg	SL-020-SA8N	9 - 10
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	40 / 106	0.0162 J Z	1.17 Z	0.011 - 0.127	1.01 - 1.23	ng/kg	SL-051-SA8N	7.5 - 8.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	1 / 106	1.9 J Z	1.9 J Z	0.34 - 1.9	1.8 - 9.7	ug/kg	SL-133-SA8N	4 - 5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	12 / 106	0.93 J Z	37	0.34 - 1.9	1.8 - 9.7	ug/kg	SL-056-SA8N	4 - 5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	6 / 106	0.5 J Z	4.2	0.41 - 2.2	1.8 - 9.7	ug/kg	SL-051-SA8N	7.5 - 8.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 106	-	-	0.34 - 1.9	1.8 - 9.7	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 106	-	-	1 - 5.7	3.4 - 19	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 106	-	-	1 - 5.7	3.4 - 19	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	5 / 106	1.4 J L, Z	4.4	1 - 5.7	3.4 - 19	ug/kg	SL-116-SA8N	4 - 5
PCBs and Dioxins	OCDD	3268-87-9	1613B	39 / 106	2 J Z	503	0.019 - 0.0871	10.1 - 12.3	ng/kg	SL-120-SA8N	4 - 5
PCBs and Dioxins	OCDF	39001-02-0	1613B	13 / 106	1.02 J Z	9.27 J Z	0.0173 - 0.0903	10.1 - 12.3	ng/kg	SL-120-SA8N	4 - 5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	1 / 106	1 J Z	1 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-057-SA8N	7 - 8
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 106	-	-	350 - 1800	1000 - 5400	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	2 / 106	0.83 J Z	0.96 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-057-SA8N	7 - 8
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 106	-	-	100 - 540	350 - 1800	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 106	-	-	69 - 360	170 - 900	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 106	-	-	35 - 180	170 - 900	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 106	-	-	69 - 360	170 - 900	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	0 / 106	-	-	0.69 - 7.2	1.7 - 18	ug/kg		-
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	0 / 106	-	-	0.35 - 3.6	1.7 - 18	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	0 / 1	-	-	18 - 18	180 - 180	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C SIM	2 / 105	0.39 J Z	0.42 J Z	0.35 - 3.6	1.7 - 18	ug/kg	SL-133-SA8N	7 - 8
Semivolatiles	Benzidine	92-87-5	8270C	0 / 106	-	-	1200 - 6300	3500 - 18000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	1 / 106	0.97 J Z	0.97 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-137-SA8N	4 - 5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	3 / 106	0.78 J Z	0.9 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-120-SA8N	9 - 10
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	17 / 106	0.76 J Z	37	0.69 - 7.2	1.7 - 18	ug/kg	SL-120-SA8N	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	3 / 106	1.2 J Z	13 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-120-SA8N	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	3 / 106	0.96 J Z	2	0.69 - 7.2	1.7 - 18	ug/kg	SL-122-SA8N	2 - 3
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	18 / 32	19 J Z	26 J Z	18 - 20	350 - 410	ug/kg	SL-005-SA8N SL-120-SA8N	8 - 9 9 10
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	22 / 77	6.7 J Z	16 J Z	6.2 - 65	19 - 200	ug/kg	SL-016-SA8N	3 - 4
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	1 / 106	19 J Z	19 J Z	6.2 - 65	19 - 200	ug/kg	SL-021-SA8N	9 - 10
Semivolatiles	Carbazole	86-74-8	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C	0 / 1	-	-	18 - 18	180 - 180	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C SIM	11 / 105	0.47 J Z	22	0.35 - 3.6	1.7 - 18	ug/kg	SL-120-SA8N	4 - 5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	1 / 106	2.2	2.2	0.69 - 7.2	1.7 - 18	ug/kg	SL-008-SA8N	9 - 10
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	0 / 106	-	-	6.2 - 65	19 - 200	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 106	-	-	6.2 - 65	19 - 200	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	7 / 106	7.1 J Z	13 J Z	6.2 - 65	19 - 200	ug/kg	SL-136-SA8N	4 - 5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	0 / 3	-	-	18 - 20	180 - 200	ug/kg		-
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	24 / 103	8.6 J Z	11 J Z	6.2 - 65	19 - 200	ug/kg	SL-017-SA8N	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	5 / 106	1 J Z	10 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-120-SA8N	4 - 5
Semivolatiles	Fluorene	86-73-7	8270C SIM	0 / 106	-	-	0.69 - 7.2	1.7 - 18	ug/kg		-
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 106	-	-	69 - 360	170 - 900	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	1 / 106	2.2	2.2	0.69 - 7.2	1.7 - 18	ug/kg	SL-008-SA8N	9 - 10
Semivolatiles	Isophorone	78-59-1	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	10 / 106	0.81 J Z	1.2 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-135-SA8N	2 - 3
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	33 / 48	19.7 J Z	201	17.7 - 200	35.3 - 401	ng/kg	SL-012-SA8N	4 - 5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 106	-	-	0.69 - 7.2	1.7 - 18	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 106	-	-	170 - 900	520 - 2700	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	0 / 2	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	2 / 104	1.4 J Z	1.7 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-137-SA8N	4 - 5
Semivolatiles	Phenol	108-95-2	8270C	0 / 106	-	-	17 - 90	170 - 900	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C SIM	7 / 106	0.84 J Z	11 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-120-SA8N	4 - 5
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	0 / 87	-	-	0.18 - 0.25	3.6 - 5	ug/kg		-
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	0 / 87	-	-	0.21 - 0.29	3.6 - 5	ug/kg		-
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	0 / 87	-	-	0.24 - 0.34	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloroethane	75-34-3	8260B	0 / 87	-	-	0.09 - 0.12	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloroethene	75-35-4	8260B	0 / 87	-	-	0.35 - 0.49	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloropropene	563-58-6	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	0 / 87	-	-	0.16 - 0.22	3.6 - 5	ug/kg		-
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	1 / 87	0.57 J Z	0.57 J Z	0.36 - 0.5	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	0 / 87	-	-	0.63 - 0.87	3.6 - 5	ug/kg		-
Volatiles	1,2-Dibromoethane	106-93-4	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	0 / 87	-	-	0.08 - 0.11	3.6 - 5	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	1,2-Dichloroethane	107-06-2	8260B	0 / 87	-	-	0.14 - 0.19	3.6 - 5	ug/kg		-
Volatiles	1,2-Dichloropropane	78-87-5	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	1 / 87	0.36 J Z	0.36 J Z	0.09 - 0.12	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	1,3-Dichloropropane	142-28-9	8260B	0 / 87	-	-	0.07 - 0.1	3.6 - 5	ug/kg		-
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	0 / 87	-	-	4.5 - 6.1	14 - 18	ug/kg		-
Volatiles	2,2-Dichloropropane	594-20-7	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	2-Butanone	78-93-3	8260B	2 / 87	2.5 J Z	2.5 J Z	1.1 - 1.5	7.2 - 10	ug/kg	SL-109-SA8N SL-109-SA8N	4 - 5 9 10
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	0 / 87	-	-	0.27 - 0.37	3.6 - 5	ug/kg		-
Volatiles	2-Chlorotoluene	95-49-8	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	2-Hexanone	591-78-6	8260B	0 / 87	-	-	1.4 - 2	7.2 - 10	ug/kg		-
Volatiles	4-Chlorotoluene	106-43-4	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	1 / 87	0.88 J Z	0.88 J Z	0.35 - 0.49	7.2 - 10	ug/kg	SL-027-SA8N	4 - 5
Volatiles	Acetone	67-64-1	8260B	12 / 87	7.2 J Z	15	6.1 - 8.3	7.2 - 10	ug/kg	SL-105-SA8N	4 - 5
Volatiles	Benzene	71-43-2	8260B	1 / 87	0.11 J Z	0.11 J Z	0.09 - 0.12	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Bromobenzene	108-86-1	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	Bromochloromethane	74-97-5	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	Bromodichloromethane	75-27-4	8260B	0 / 87	-	-	0.07 - 0.1	3.6 - 5	ug/kg		-
Volatiles	Bromoform	75-25-2	8260B	0 / 87	-	-	0.36 - 0.5	3.6 - 5	ug/kg		-
Volatiles	Bromomethane	74-83-9	8260B	0 / 87	-	-	0.23 - 0.31	3.6 - 5	ug/kg		-
Volatiles	Carbon tetrachloride	56-23-5	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	Chlorobenzene	108-90-7	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	Chloroethane	75-00-3	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	Chloroform	67-66-3	8260B	11 / 87	0.13 J Z	1.9 J Z	0.11 - 0.15	3.6 - 5	ug/kg	SL-051-SA8N	7.5 - 8.5
Volatiles	Chloromethane	74-87-3	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	0 / 87	-	-	0.45 - 0.62	4.5 - 6.2	ug/kg		-
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	0 / 87	-	-	0.17 - 0.24	3.6 - 5	ug/kg		-
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	Dibromochloromethane	124-48-1	8260B	0 / 87	-	-	0.18 - 0.25	3.6 - 5	ug/kg		-
Volatiles	Dibromomethane	74-95-3	8260B	0 / 87	-	-	0.22 - 0.3	3.6 - 5	ug/kg		-
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	0 / 63	-	-	0.43 - 0.92	1.3 - 2.7	mg/kg		-
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	9 / 63	0.49 J Z	6.7	0.43 - 0.92	1.3 - 2.7	mg/kg	SL-057-SA8N	7 - 8
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	30 / 63	0.45 J Z	17	0.43 - 0.92	1.3 - 2.7	mg/kg	SL-120-SA8N	9 - 10
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	53 / 63	0.5 J Z	100	0.43 - 0.92	1.3 - 2.7	mg/kg	SL-120-SA8N	9 - 10
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	0 / 63	-	-	0.43 - 0.92	1.3 - 2.7	mg/kg		-
Volatiles	Ethylbenzene	100-41-4	8260B	1 / 87	0.46 J Z	0.46 J Z	0.05 - 0.07	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Freon 113	76-13-1	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	Freon 113a	75-88-7	8260B	0 / 87	-	-	0.45 - 0.62	4.5 - 6.2	ug/kg		-
Volatiles	GRO (C5-C12)	GROC5C12	8015M	1 / 63	0.2 J Z	0.2 J Z	0.2 - 0.3	0.9 - 1.4	mg/kg	SL-040-SA8N	9 - 10
Volatiles	Hexachlorobutadiene	87-68-3	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	Isopropylbenzene	98-82-8	8260B	0 / 87	-	-	0.05 - 0.07	3.6 - 5	ug/kg		-
Volatiles	Isopropyltoluene	99-87-6	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	m,p-Xylene	179601-23-1	8260B	1 / 87	1.6 J Z	1.6 J Z	0.15 - 0.21	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	0 / 87	-	-	0.19 - 0.26	3.6 - 5	ug/kg		-
Volatiles	Methylene chloride	75-09-2	8260B	53 / 87	4.6	44	0.22 - 0.3	3.6 - 5	ug/kg	SL-028-SA8N	4 - 5

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	N-Butylbenzene	104-51-8	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	N-Propylbenzene	103-65-1	8260B	0 / 87	-	-	0.06 - 0.09	3.6 - 5	ug/kg		-
Volatiles	o-Xylene	95-47-6	8260B	1 / 87	0.49 J Z	0.49 J Z	0.15 - 0.21	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	sec-Butylbenzene	135-98-8	8260B	0 / 87	-	-	0.05 - 0.07	3.6 - 5	ug/kg		-
Volatiles	Styrene	100-42-5	8260B	0 / 87	-	-	0.09 - 0.12	3.6 - 5	ug/kg		-
Volatiles	tert-Butylbenzene	98-06-6	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	Tetrachloroethene	127-18-4	8260B	1 / 87	0.52 J Z	0.52 J Z	0.18 - 0.25	3.6 - 5	ug/kg	SL-051-SA8N	7.5 - 8.5
Volatiles	Toluene	108-88-3	8260B	16 / 87	0.08 J Z	1.5 J Z	0.07 - 0.1	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	Trichloroethene	79-01-6	8260B	6 / 87	0.26 J Z	17 J FD, Q	0.14 - 0.19	3.6 - 5	ug/kg	SL-141-SA8N	4 - 5
Volatiles	Trichlorofluoromethane	75-69-4	8260B	0 / 87	-	-	0.26 - 0.36	3.6 - 5	ug/kg		-
Volatiles	Vinyl Chloride	75-01-4	8260B	1 / 87	0.27 J Z	0.27 J Z	0.18 - 0.25	3.6 - 5	ug/kg	SL-020-SA8N	9 - 10

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	192 / 192	9400	37500	5.04 - 6.94	20.1 - 25.5	mg/kg	SL-032-SA8N	4 - 5
Inorganic	Antimony	7440-36-0	6020	161 / 192	0.0666 J Q, E, Z	87 J Q	0.0595 - 0.0855	0.198 - 0.252	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	192 / 192	2.54 J Q	78.4 J Q, E	0.0793 - 0.101	0.397 - 0.504	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Barium	7440-39-3	6020	192 / 192	49.6	213	0.107 - 0.286	0.397 - 1.06	mg/kg	SL-132-SA8N	0 - 0.5
Inorganic	Beryllium	7440-41-7	6020	192 / 192	0.321 J Q	1.22	0.0159 - 0.0202	0.0991 - 0.126	mg/kg	SL-041-SA8N	4 - 5
Inorganic	Boron	7440-42-8	6010B	153 / 192	1.04 J Z	23.6	0.373 - 1.13	5.01 - 6.37	mg/kg	SL-027-SA8N	0 - 0.5
Inorganic	Cadmium	7440-43-9	6020	185 / 192	0.0449 J Z	1.47	0.0397 - 0.0508	0.0991 - 0.126	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	192 / 192	1080	233000	2.67 - 37.9	20.1 - 124	mg/kg	SL-032-SA8N	9 - 10
Inorganic	Chromium	7440-47-3	6020	192 / 192	8.73 J Q	57.1 J E, #	0.119 - 0.151	0.397 - 0.504	mg/kg	SL-133-SA8N	0 - 0.5
Inorganic	Chromium VI	18540-29-9	7199	107 / 192	0.28 J Z	1.5	0.2 - 0.26	1 - 1.3	mg/kg	SL-076-SA8N	7.5 - 8.5
Inorganic	Cobalt	7440-48-4	6020	192 / 192	2.75	17.7 J Q, E, #	0.0198 - 0.0252	0.0991 - 0.126	mg/kg	SL-027-SA8N	4 - 5
Inorganic	Copper	7440-50-8	6020	192 / 192	3.91 J Q	94 J E, Q	0.0654 - 0.378	0.397 - 2.29	mg/kg	SL-021-SA8N	4 - 5
Inorganic	Cyanide	57-12-5	9012B	6 / 95	0.21 J Z	0.4 J Z	0.18 - 0.23	0.5 - 0.65	mg/kg	SL-116-SA8N	0 - 0.5
Inorganic	Fluoride	16984-48-8	300	182 / 192	1.1 J Q	13.1	0.81 - 1	1 - 1.3	mg/kg	SL-017-SA8N	7 - 8
Inorganic	Iron	7439-89-6	6010B	192 / 192	15700	39800	2.8 - 28.7	20.1 - 122	mg/kg	SL-007-SA8N	0 - 0.5
Inorganic	Lead	7439-92-1	6020	192 / 192	3.95 J E	9920 J Q	0.0103 - 2.69	0.198 - 51.8	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	192 / 192	13.6	41	0.22 - 0.71	2 - 2.5	mg/kg	SL-049-SA8N	8 - 9
Inorganic	Magnesium	7439-95-4	6010B	192 / 192	2990	9880	0.47 - 3.24	10 - 12.7	mg/kg	SL-004-SA8N	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	192 / 192	115 J E	685 J E	0.0385 - 0.0994	0.501 - 0.637	mg/kg	SL-133-SA8N	4 - 5
Inorganic	Mercury	7439-97-6	7471A	89 / 192	0.0037 J FD, Z	3.77	0.0027 - 0.0153	0.0934 - 0.532	mg/kg	SL-093-SA8N	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	192 / 192	0.113	2.4	0.0496 - 0.063	0.0991 - 0.126	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	192 / 192	5.61 J Q	44.8 J Q, #	0.0991 - 0.126	0.397 - 0.504	mg/kg	SL-133-SA8N	0 - 0.5
Inorganic	Nitrate	14797-55-8	300	91 / 95	1 J Z	51.6 J Q	0.81 - 4.6	1.5 - 8.7	mg/kg	SL-078-SA8N	0 - 0.5
Inorganic	Percent Moisture	MOIST	160.3M	195 / 195	1.1	22.3	0.5 - 0.5	0.5 - 0.5	%	SL-077-SA8N	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314	3 / 192	17.3 J Z	199	9.1 - 11.6	30.3 - 38.6	ug/kg	SL-021-SA8N	4 - 5
Inorganic	Perchlorate	14797-73-0	6850	5 / 21	3.1 J Z	180	2.3 - 2.6	5.4 - 6.2	ug/kg	SL-021-SA8N	4 - 5
Inorganic	pH	pH	9045M	192 / 192	5.39	8.83	0.01 - 0.01	0.01 - 0.01	pH unit	SL-005-SA8N	8 - 9
Inorganic	Phosphorus	7723-14-0	6010B	192 / 192	96	3620 J E	0.374 - 1.15	10 - 20.5	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Potassium	9/7/7440	6010B	192 / 192	1320 J Q	7430	12.1 - 22.9	50.1 - 63.7	mg/kg	SL-036-SA8N	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	171 / 192	0.0498 J Z	0.795	0.0397 - 0.067	0.397 - 0.504	mg/kg	SL-056-SA8N	0 - 0.5
Inorganic	Silver	7440-22-4	6020	188 / 192	0.0133 J Q, E, Z	0.515	0.0119 - 0.0164	0.0991 - 0.126	mg/kg	SL-005-SA8N	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	192 / 192	61 J Z	699	6.36 - 47.5	100 - 127	mg/kg	SL-017-SA8N	4 - 5
Inorganic	Strontium	7440-24-6	6010B	192 / 192	10.3	268	0.0267 - 0.079	0.501 - 0.637	mg/kg	SL-032-SA8N	9 - 10
Inorganic	Thallium	7440-28-0	6020	192 / 192	0.177	0.475 J Q	0.0297 - 0.0378	0.0991 - 0.126	mg/kg	SL-032-SA8N	0 - 0.5
Inorganic	Tin	7440-31-5	6010B	0 / 192	-	-	0.342 - 1.27	10 - 12.7	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	192 / 192	726	1560	0.0742 - 0.484	1 - 1.27	mg/kg	SL-133-SA8N	4 - 5
Inorganic	Vanadium	7440-62-2	6020	192 / 192	21.1 J Q	85.1 J E	0.0218 - 0.0277	0.0991 - 0.126	mg/kg	SL-086-SA8N	6.5 - 7.5
Inorganic	Zinc	7440-66-6	6020	192 / 192	35.3	649 J A	0.561 - 2.78	3.01 - 14.9	mg/kg	SL-108-SA8N	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	168 / 192	0.929 J Z	8.41	0.492 - 1.07	5.01 - 6.37	mg/kg	SL-022-SA8N	9 - 10
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 105	-	-	81 - 100	240 - 300	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 105	-	-	81 - 100	240 - 300	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 105	-	-	81 - 100	120 - 150	ug/kg		-
Misc. Organics	2-Propanol	67-63-0	8015B	1 / 95	340 J Z	340 J Z	100 - 130	510 - 640	ug/kg	SL-108-SA8N	0 - 0.5
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 105	-	-	100 - 130	120 - 150	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 105	-	-	60 - 76	120 - 150	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 105	-	-	81 - 100	120 - 150	ug/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 135	-	-	5.1 - 7.1	11 - 16	mg/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 95	-	-	100 - 130	510 - 640	ug/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 135	-	-	5.1 - 6.4	11 - 16	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	10 / 95	780 J Z	3100	610 - 1400	1500 - 3400	ug/kg	SL-109-SA8N	9 - 10
Misc. Organics	HMX	2691-41-0	8330A	0 / 105	-	-	100 - 130	300 - 380	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	0 / 95	-	-	100 - 130	510 - 640	ug/kg		-
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 95	-	-	1.6 - 3	3.6 - 7.1	mg/kg		-
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 105	-	-	40 - 50	120 - 150	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 105	-	-	810 - 3600	2400 - 3600	ug/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 95	-	-	1.6 - 3	3.6 - 7.1	mg/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 105	-	-	810 - 1000	2400 - 3000	ug/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 135	-	-	5.1 - 6.4	11 - 16	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	1 / 95	3 J Z	3 J Z	1.6 - 3	3.6 - 7.1	mg/kg	SL-108-SA8N	0 - 0.5
Misc. Organics	RDX	121-82-4	8330A	0 / 105	-	-	50 - 63	120 - 150	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 105	-	-	62 - 77	120 - 150	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	102 / 192	1.24 J Z	636	0.015 - 0.272	5 - 6.33	ng/kg	SL-032-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	84 / 192	0.539 J Z	43.8	0.00701 - 0.123	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	32 / 192	0.241 J Z	3.08 J Z	0.0113 - 0.14	5 - 6.33	ng/kg	SL-032-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	76 / 192	0.0155 J Z	5.95	0.011 - 0.165	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	84 / 192	0.227 J Z	4.98 J Z	0.00717 - 0.135	5 - 6.33	ng/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	94 / 192	0.157 J Z	31.1	0.0114 - 0.173	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	69 / 192	0.0214 J Z	12	0.00671 - 0.115	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	112 / 192	0.0355 J Z	14.5	0.0108 - 0.159	5 - 6.33	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	60 / 192	0.0492 J Z	2.96 J Z	0.00821 - 0.107	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	70 / 192	0.0196 J Z	7.19	0.0118 - 0.158	5 - 6.33	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	98 / 192	0.114 J Z	11.5	0.00636 - 0.198	5 - 6.33	ng/kg	SL-016-SA8N	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	50 / 192	0.091 J Z	21.2	0.00677 - 0.119	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	69 / 192	0.0491 J Z	27	0.00601 - 0.196	5 - 6.33	ng/kg	SL-005-SA8N	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	43 / 192	0.0146 J Z	3.11	0.0104 - 0.145	1 - 1.27	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	108 / 192	0.0162 J Z	28.5 Z	0.011 - 0.953	1 - 1.27	ng/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 192	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 192	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 192	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 192	-	-	0.33 - 400	1.7 - 2100	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	2 / 192	1.9 J Z	1700	0.33 - 400	1.7 - 2100	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	81 / 192	0.7 J Z	1500	0.33 - 400	1.7 - 2100	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	64 / 192	0.5 J Z	42	0.39 - 470	1.7 - 2100	ug/kg	SL-116-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 192	-	-	0.33 - 400	1.7 - 2100	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	8 / 192	0.61 J Z	29 J S	0.33 - 400	1.7 - 2100	ug/kg	SL-010-SA8N	0 - 0.5
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 192	-	-	1 - 1200	3.3 - 4000	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 192	-	-	1 - 1200	3.3 - 4000	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	55 / 192	1.3 J Z	5100	1 - 1200	3.3 - 4000	ug/kg	SL-133-SA8N	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	125 / 192	2 J Z	5190 J #	0.019 - 0.203	10 - 12.7	ng/kg	SL-028-SA8N	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	90 / 192	1.02 J Z	75.9	0.017 - 0.123	10 - 12.7	ng/kg	SL-032-SA8N	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 192	-	0	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	7 / 192	0.96 J Z	2.4	0.69 - 7.2	1.7 - 18	ug/kg	SL-133-SA8N	0 - 0.5
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 192	-	-	340 - 1900	1000 - 5700	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	1 / 192	510	510	34 - 190	170 - 960	ug/kg	SL-092-SA8N	0 - 0.5
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	16 / 192	0.83 J Z	4 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-091-SA8N	0 - 0.5
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 192	-	-	100 - 570	340 - 1900	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 192	-	-	69 - 380	170 - 960	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 192	-	-	34 - 190	170 - 960	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 192	-	-	69 - 380	170 - 960	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C	1 / 1	120 J Z	120 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	2 / 191	1.2 J Z	6.6	0.69 - 7.2	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	6 / 192	0.51 J Z	1.9 J Z	0.35 - 3.6	1.7 - 18	ug/kg	SL-108-SA8N	0 - 0.5

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Aniline	62-53-3	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	1 / 2	190 J Z	190 J Z	18 - 86	180 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Anthracene	120-12-7	8270C SIM	25 / 190	0.39 J Z	15	0.35 - 3.6	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 192	-	-	1200 - 6700	3400 - 19000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	3 / 3	20 J Z	1200	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	40 / 189	0.8 J Z	110	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	1 / 1	1200	1200	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	51 / 191	0.77 J FD, Z	140	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	6 / 6	17 J Z	1500	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	77 / 186	0.76 J Z	220 J C	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	5 / 5	23 J Z	980	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	49 / 187	0.87 J Z	90	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	1 / 1	910	910	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	44 / 191	0.75 J Z	74	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	91 / 105	18 J Z	1000	17 - 86	340 - 1700	ug/kg	SL-048-SA8N	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	24 / 90	6.7 J Z	56	6.2 - 65	19 - 200	ug/kg	SL-119-SA8N	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	3 / 15	20 J Z	26 J L, Z	17 - 86	170 - 860	ug/kg	SL-126-SA8N	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	3 / 177	18 J Z	110	6.2 - 65	19 - 200	ug/kg	SL-108-SA8N	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	2 / 192	21 J Z	110 J Z	17 - 96	170 - 960	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C	7 / 8	21 J Z	1700	17 - 86	170 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	85 / 184	0.4 J Z	120	0.35 - 3.6	1.7 - 18	ug/kg	SL-131-SA8N SL-115-SA8N	0 - 0.5 0 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	1 / 1	280 J Z	280 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	10 / 191	0.98 J Z	25	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C	0 / 13	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	1 / 179	8.9 J FD, Q, Z	8.9 J FD, Q, Z	6.2 - 65	19 - 200	ug/kg	SL-119-SA8N	0 - 0.5
Semivolatiles	Dimethylphthalate	131-11-3	8270C	0 / 13	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 179	-	-	6.2 - 65	19 - 200	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	5 / 17	22 J Z	1100	17 - 86	170 - 860	ug/kg	SL-127-SA8N	0 - 0.5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	10 / 175	7.1 J Z	72	6.2 - 65	19 - 200	ug/kg	SL-004-SA8N	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	0 / 15	-	-	17 - 86	170 - 860	ug/kg		-
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	33 / 177	8.6 J Z	230	6.2 - 65	19 - 200	ug/kg	SL-108-SA8N	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C	6 / 6	23 J Z	2200	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	65 / 186	0.93 J Z	200	0.69 - 7.2	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	10 / 192	0.82 J Z	6.3	0.69 - 7.2	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 192	-	-	69 - 380	170 - 960	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	1 / 1	790 J Z	790 J Z	86 - 86	860 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	46 / 191	0.79 J Z	88	0.69 - 7.2	1.7 - 18	ug/kg	SL-115-SA8N	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	54 / 192	0.81 J Z	6.1 J Z	0.69 - 7.2	1.7 - 18	ug/kg	SL-091-SA8N	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	55 / 95	19.2 J Z	685	17.5 - 337	34.9 - 674	ng/kg	SL-010-SA8N	0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 192	-	-	0.69 - 7.2	1.7 - 18	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	1 / 192	26 J Z	26 J Z	17 - 96	170 - 960	ug/kg	SL-004-SA8N	0 - 0.5
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 192	-	-	170 - 960	520 - 2900	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	3 / 5	21 J Z	1200	18 - 86	180 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	58 / 187	0.76 J Z	110	0.69 - 7.2	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	0 / 192	-	-	17 - 96	170 - 960	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	8 / 8	21 J Z	2600	19 - 86	190 - 860	ug/kg	SL-137-SA8N	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	63 / 184	0.84 J Z	170	0.69 - 7.2	1.7 - 18	ug/kg	SL-131-SA8N	0 - 0.5
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	0 / 87	-	-	0.18 - 0.25	3.6 - 5	ug/kg		-
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	0 / 87	-	-	0.21 - 0.29	3.6 - 5	ug/kg		-
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	0 / 87	-	-	0.24 - 0.34	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloroethane	75-34-3	8260B	0 / 87	-	-	0.09 - 0.12	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloroethene	75-35-4	8260B	0 / 87	-	-	0.35 - 0.49	3.6 - 5	ug/kg		-
Volatiles	1,1-Dichloropropene	563-58-6	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	0 / 87	-	-	0.16 - 0.22	3.6 - 5	ug/kg		-
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	1 / 87	0.57 J Z	0.57 J Z	0.36 - 0.5	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	0 / 87	-	-	0.63 - 0.87	3.6 - 5	ug/kg		-
Volatiles	1,2-Dibromoethane	106-93-4	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	0 / 87	-	-	0.08 - 0.11	3.6 - 5	ug/kg		-
Volatiles	1,2-Dichloroethane	107-06-2	8260B	0 / 87	-	-	0.14 - 0.19	3.6 - 5	ug/kg		-
Volatiles	1,2-Dichloropropane	78-87-5	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	1 / 87	0.36 J Z	0.36 J Z	0.09 - 0.12	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	1,3-Dichloropropane	142-28-9	8260B	0 / 87	-	-	0.07 - 0.1	3.6 - 5	ug/kg		-
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	0 / 87	-	-	4.5 - 6.1	14 - 18	ug/kg		-
Volatiles	2,2-Dichloropropane	594-20-7	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	2-Butanone	78-93-3	8260B	2 / 87	2.5 J Z	2.5 J Z	1.1 - 1.5	7.2 - 10	ug/kg	SL-109-SA8N SL-109-SA8N	4 - 5 9 10
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	0 / 87	-	-	0.27 - 0.37	3.6 - 5	ug/kg		-
Volatiles	2-Chlorotoluene	95-49-8	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	2-Hexanone	591-78-6	8260B	0 / 87	-	-	1.4 - 2	7.2 - 10	ug/kg		-
Volatiles	4-Chlorotoluene	106-43-4	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	1 / 87	0.88 J Z	0.88 J Z	0.35 - 0.49	7.2 - 10	ug/kg	SL-027-SA8N	4 - 5
Volatiles	Acetone	67-64-1	8260B	12 / 87	7.2 J Z	15	6.1 - 8.3	7.2 - 10	ug/kg	SL-105-SA8N	4 - 5
Volatiles	Benzene	71-43-2	8260B	1 / 87	0.11 J Z	0.11 J Z	0.09 - 0.12	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Bromobenzene	108-86-1	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	Bromochloromethane	74-97-5	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	Bromodichloromethane	75-27-4	8260B	0 / 87	-	-	0.07 - 0.1	3.6 - 5	ug/kg		-
Volatiles	Bromoform	75-25-2	8260B	0 / 87	-	-	0.36 - 0.5	3.6 - 5	ug/kg		-
Volatiles	Bromomethane	74-83-9	8260B	0 / 87	-	-	0.23 - 0.31	3.6 - 5	ug/kg		-
Volatiles	Carbon tetrachloride	56-23-5	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	Chlorobenzene	108-90-7	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	Chloroethane	75-00-3	8260B	0 / 87	-	-	0.12 - 0.16	3.6 - 5	ug/kg		-
Volatiles	Chloroform	67-66-3	8260B	11 / 87	0.13 J Z	1.9 J Z	0.11 - 0.15	3.6 - 5	ug/kg	SL-051-SA8N	7.5 - 8.5
Volatiles	Chloromethane	74-87-3	8260B	0 / 87	-	-	0.3 - 0.41	3.6 - 5	ug/kg		-
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	0 / 87	-	-	0.45 - 0.62	4.5 - 6.2	ug/kg		-
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	0 / 87	-	-	0.17 - 0.24	3.6 - 5	ug/kg		-
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	Dibromochloromethane	124-48-1	8260B	0 / 87	-	-	0.18 - 0.25	3.6 - 5	ug/kg		-
Volatiles	Dibromomethane	74-95-3	8260B	0 / 87	-	-	0.22 - 0.3	3.6 - 5	ug/kg		-
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	1 / 119	0.48 J Z	0.48 J Z	0.42 - 59	1.2 - 180	mg/kg	SL-049-SA8N	0 - 0.5
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	54 / 119	0.49 J Z	61 J Z	0.42 - 59	1.2 - 180	mg/kg	SL-108-SA8N	0 - 0.5
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	86 / 119	0.45 J Z	640	0.42 - 59	1.2 - 180	mg/kg	SL-117-SA8N	0 - 0.5
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	109 / 119	0.5 J Z	2800	0.42 - 59	1.2 - 180	mg/kg	SL-117-SA8N	0 - 0.5
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	0 / 119	-	-	0.42 - 59	1.2 - 180	mg/kg		-
Volatiles	Ethylbenzene	100-41-4	8260B	1 / 87	0.46 J Z	0.46 J Z	0.05 - 0.07	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Freon 113	76-13-1	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	Freon 113a	75-88-7	8260B	0 / 87	-	-	0.45 - 0.62	4.5 - 6.2	ug/kg		-
Volatiles	GRO (C5-C12)	GROC5C12	8015M	1 / 63	0.2 J Z	0.2 J Z	0.2 - 0.3	0.9 - 1.4	mg/kg	SL-040-SA8N	9 - 10
Volatiles	Hexachlorobutadiene	87-68-3	8260B	0 / 87	-	-	0.13 - 0.17	3.6 - 5	ug/kg		-
Volatiles	Isopropylbenzene	98-82-8	8260B	0 / 87	-	-	0.05 - 0.07	3.6 - 5	ug/kg		-
Volatiles	Isopropyltoluene	99-87-6	8260B	0 / 87	-	-	0.1 - 0.14	3.6 - 5	ug/kg		-
Volatiles	m,p-Xylene	179601-23-1	8260B	1 / 87	1.6 J Z	1.6 J Z	0.15 - 0.21	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	0 / 87	-	-	0.19 - 0.26	3.6 - 5	ug/kg		-
Volatiles	Methylene chloride	75-09-2	8260B	53 / 87	4.6	44	0.22 - 0.3	3.6 - 5	ug/kg	SL-028-SA8N	4 - 5
Volatiles	N-Butylbenzene	104-51-8	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	N-Propylbenzene	103-65-1	8260B	0 / 87	-	-	0.06 - 0.09	3.6 - 5	ug/kg		-
Volatiles	o-Xylene	95-47-6	8260B	1 / 87	0.49 J Z	0.49 J Z	0.15 - 0.21	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	sec-Butylbenzene	135-98-8	8260B	0 / 87	-	-	0.05 - 0.07	3.6 - 5	ug/kg		-
Volatiles	Styrene	100-42-5	8260B	0 / 87	-	-	0.09 - 0.12	3.6 - 5	ug/kg		-
Volatiles	tert-Butylbenzene	98-06-6	8260B	0 / 87	-	-	0.15 - 0.2	3.6 - 5	ug/kg		-
Volatiles	Tetrachloroethene	127-18-4	8260B	1 / 87	0.52 J Z	0.52 J Z	0.18 - 0.25	3.6 - 5	ug/kg	SL-051-SA8N	7.5 - 8.5

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA-8 North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	Toluene	108-88-3	8260B	16 / 87	0.08 J Z	1.5 J Z	0.07 - 0.1	3.6 - 5	ug/kg	SL-086-SA8N	6.5 - 7.5
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	0 / 87	-	-	0.11 - 0.15	3.6 - 5	ug/kg		-
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	0 / 87	-	-	0.15 - 0.21	3.6 - 5	ug/kg		-
Volatiles	Trichloroethene	79-01-6	8260B	6 / 87	0.26 J Z	17 J FD, Q	0.14 - 0.19	3.6 - 5	ug/kg	SL-141-SA8N	4 - 5
Volatiles	Trichlorofluoromethane	75-69-4	8260B	0 / 87	-	-	0.26 - 0.36	3.6 - 5	ug/kg		-
Volatiles	Vinyl Chloride	75-01-4	8260B	1 / 87	0.27 J Z	0.27 J Z	0.18 - 0.25	3.6 - 5	ug/kg	SL-020-SA8N	9 - 10

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	21 / 21	11100	30400	5.95 - 6.48	19.7 - 21.4	mg/kg	SL-012-SA8S	0 - 0.5
Inorganic	Antimony	7440-36-0	6020	20 / 21	0.0723 J Q, Z	0.225 J Q	0.0721 - 0.0793	0.195 - 0.214	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	21 / 21	4.49 J E, Q	8.6 J E, Q	0.0779 - 0.0857	0.39 - 0.429	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Barium	7440-39-3	6020	21 / 21	63.6 J A	138 J A	0.103 - 0.114	0.39 - 0.429	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Beryllium	7440-41-7	6020	21 / 21	0.418	0.853	0.0156 - 0.0171	0.0974 - 0.107	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Boron	7440-42-8	6010B	21 / 21	1.7 J Z	14.5	0.354 - 0.386	4.92 - 5.36	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Cadmium	7440-43-9	6020	21 / 21	0.153	0.402	0.0428 - 0.0472	0.0974 - 0.107	mg/kg	SL-018-SA8S	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	21 / 21	3480 J E	242000	2.46 - 13.4	19.7 - 107	mg/kg	SL-007-SA8S	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	21 / 21	14.3 J Q, A	47.4 J Q	0.117 - 0.129	0.39 - 0.429	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Chromium VI	18540-29-9	7199	15 / 21	0.34 J Z	2.2	0.2 - 0.22	1 - 1.1	mg/kg	SL-007-SA8S	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	21 / 21	4.85 J Q, A	12.2 J Q, A J A	0.0195 - 0.0214	0.0974 - 0.107	mg/kg	SL-001-SA8S SL-012-SA8S	0 - 0.5 0 0.5
Inorganic	Copper	7440-50-8	6020	21 / 21	7.44 J A	23.5 J E, Q	0.0779 - 0.0857	0.39 - 0.429	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Fluoride	16984-48-8	300	5 / 20	0.92 J Q, Z	1 J Q	0.81 - 0.87	1 - 1.1	mg/kg	SL-022-SA8S	0 - 0.5
Inorganic	Iron	7439-89-6	6010B	21 / 21	11100	37700	2.57 - 13.8	19.7 - 106	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Lead	7439-92-1	6020	21 / 21	6.61 J A	26.1 J A	0.0099 - 0.0109	0.195 - 0.214	mg/kg	SL-010-SA8S	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	21 / 21	12.7	31.2	0.61 - 0.66	2 - 2.1	mg/kg	SL-012-SA8S	0 - 0.5
Inorganic	Magnesium	7439-95-4	6010B	21 / 21	3930	9210	0.433 - 0.472	9.83 - 10.7	mg/kg	SL-012-SA8S	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	21 / 21	167	497	0.0354 - 0.0386	0.492 - 0.536	mg/kg	SL-017-SA8S	0 - 0.5
Inorganic	Mercury	7439-97-6	7471A	16 / 21	0.0074 J Z	0.0414 J Z	0.0068 - 0.0075	0.0965 - 0.107	mg/kg	SL-008-SA8S	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	21 / 21	0.13	2.03 J Q	0.0487 - 0.0536	0.0974 - 0.107	mg/kg	SL-013-SA8S	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	21 / 21	9.48 J A	25.7 J Q	0.0974 - 0.107	0.39 - 0.429	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Percent Moisture	MOIST	160.3M	21 / 21	2.2	7.2	0.5 - 0.5	0.5 - 0.5	%	SL-017-SA8S	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314	0 / 21	-	-	9.2 - 9.7	30.7 - 32.3	ug/kg		-
Inorganic	pH	pH	9045M	21 / 21	6.52	8.31	0.01 - 0.01	0.01 - 0.01	pH unit	SL-007-SA8S	0 - 0.5
Inorganic	Phosphorus	7723-14-0	6010B	21 / 21	228	864	0.344 - 0.375	9.83 - 10.7	mg/kg	SL-017-SA8S	0 - 0.5
Inorganic	Potassium	9/7/7440	6010B	21 / 21	1460 J Q	6450	11.1 - 12.1	49.2 - 53.6	mg/kg	SL-016-SA8S	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	21 / 21	0.125 J Z	0.631	0.0565 - 0.0622	0.39 - 0.429	mg/kg	SL-024-SA8S	0 - 0.5
Inorganic	Silver	7440-22-4	6020	11 / 21	0.0234 J Z	0.0746 J Z	0.0138 - 0.0152	0.0974 - 0.107	mg/kg	SL-017-SA8S	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	21 / 21	57.7 J Z	121	5.85 - 6.38	98.3 - 107	mg/kg	SL-003-SA8S	0 - 0.5
Inorganic	Strontium	7440-24-6	6010B	21 / 21	8.34	182	0.0246 - 0.0268	0.492 - 0.536	mg/kg	SL-005-SA8S	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	21 / 21	0.123 J Q	0.42 J Q	0.0292 - 0.0322	0.0974 - 0.107	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Tin	7440-31-5	6010B	0 / 21	-	-	0.315 - 0.343	9.83 - 10.7	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	21 / 21	542	1490	0.0706 - 0.0761	0.994 - 1.07	mg/kg	SL-012-SA8S	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	21 / 21	30.6 J A	86.2 J E	0.0214 - 0.0236	0.0974 - 0.107	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	21 / 21	27.9	90.9	0.545 - 0.6	2.92 - 3.22	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	21 / 21	1.5 J Z	4.98 J Z	0.452 - 0.493	4.92 - 5.36	mg/kg	SL-022-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	20 / 21	1.64 J Z	6.2	0.0245 - 0.059	5 - 5.34	ng/kg	SL-014-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	13 / 21	0.474 J Z	1.5 J Z	0.0156 - 0.0323	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	2 / 21	0.211 J Z	0.617 J Z	0.0189 - 0.0515	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	19 / 21	0.0315 J Z	0.224 J Z	0.0252 - 0.0487	5 - 5.34	ng/kg	SL-013-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	12 / 21	0.0398 J Z	6.21	0.0195 - 0.076	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	13 / 21	0.169 J Z	0.43 J Z	0.027 - 0.049	5 - 5.34	ng/kg	SL-010-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	5 / 21	0.133 J Z	1.61 J Z	0.017 - 0.0614	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	16 / 21	0.0989 J Z	0.35 J Z	0.0238 - 0.069	5 - 5.34	ng/kg	SL-016-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	4 / 21	0.0642 J Z	0.718 J Z	0.0178 - 0.0889	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
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Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	17 / 21	0.044 J Z	0.188 J Z	0.0234 - 0.0668	5 - 5.34	ng/kg	SL-013-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	11 / 21	0.0992 J Z	8.38	0.0178 - 0.11	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	4 / 21	0.183 J Z	1.4 J Z	0.0153 - 0.0674	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	12 / 21	0.165 J Z	5.72	0.0171 - 0.122	5 - 5.34	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	7 / 21	0.0343 J Z	0.0659 J Z	0.0258 - 0.0471	1 - 1.07	ng/kg	SL-016-SA8S	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	15 / 21	0.058 J Z	9.38	0.0312 - 0.112	1 - 1.07	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	3 / 21	1.1 J Z	500	0.34 - 34	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	11 / 21	1.2 J Z	1500	0.34 - 34	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	11 / 21	0.55 J Z	220	0.4 - 41	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 21	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 21	-	-	1 - 100	3.4 - 340	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 21	-	-	1 - 100	3.4 - 340	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	9 / 21	1.4 J Z	5.5	1 - 100	3.4 - 340	ug/kg	SL-010-SA8S	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	21 / 21	5.28 J Z	86.6	0.0209 - 0.0762	10 - 10.7	ng/kg	SL-015-SA8S	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	14 / 21	1.15 J Z	2.83 J Z	0.0247 - 0.092	10 - 10.7	ng/kg	SL-021-SA8S	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 21	-	-	4.5 - 4.7	9.2 - 9.7	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	5 / 21	0.94 J Z	4	0.63 - 1.6	1.7 - 1.8	ug/kg	SL-019-SA8S	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	1 / 21	0.22	0.22	0.084 - 0.28	0.17 - 0.28	ug/kg	SL-005-SA8S	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	3 / 21	0.2 J L	0.26 J L	0.077 - 0.15	0.17 - 0.18	ug/kg	SL-013-SA8S	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	0 / 21	-	-	1.2 - 1.3	3.7 - 3.9	ug/kg		-
Pesticides	4,4'-DDD	72-54-8	8081A	0 / 21	-	-	0.067 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	4,4'-DDE	72-55-9	8081A	18 / 21	0.44	8.8	0.067 - 59	0.35 - 59	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	17 / 21	0.29 J H, Z	4.9	0.067 - 74	0.35 - 74	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	0 / 21	-	-	0.067 - 1.4	0.17 - 3.5	ug/kg		-
Pesticides	Alpha-BHC	319-84-6	8081A	0 / 21	-	-	0.035 - 0.71	0.17 - 3.5	ug/kg		-
Pesticides	Beta-BHC	319-85-7	8081A	0 / 21	-	-	0.061 - 1.3	0.17 - 3.5	ug/kg		-
Pesticides	Chlordane	57-74-9	8081A	16 / 21	1.2 J S, Z	6	0.82 - 51	3.5 - 71	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	Delta-BHC	319-86-8	8081A	11 / 21	0.04 J Z	12	0.037 - 1.4	0.17 - 3.5	ug/kg	SL-023-SA8S	0 - 0.5
Pesticides	Dicamba	1918-00-9	8151A	2 / 21	0.45 J Z	0.61 J Z	0.41 - 0.43	1.2 - 1.3	ug/kg	SL-019-SA8S	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	0 / 21	-	-	0.82 - 0.86	1.7 - 1.8	ug/kg		-
Pesticides	Dieldrin	60-57-1	8081A	1 / 21	0.33 J Z	0.33 J Z	0.068 - 25	0.35 - 25	ug/kg	SL-016-SA8S	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	0 / 21	-	-	0.82 - 0.86	2.5 - 2.6	ug/kg		-
Pesticides	Endosulfan I	959-98-8	8081A	1 / 21	0.12 J Z	0.12 J Z	0.045 - 0.92	0.17 - 3.5	ug/kg	SL-016-SA8S	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	0 / 21	-	-	0.067 - 12	0.35 - 12	ug/kg		-
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	0 / 21	-	-	0.068 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	Endrin	72-20-8	8081A	0 / 21	-	-	0.068 - 8.1	0.35 - 8.1	ug/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	8081A	0 / 21	-	-	0.068 - 6.7	0.35 - 7.1	ug/kg		-
Pesticides	Endrin Ketone	53494-70-5	8081A	0 / 21	-	-	0.068 - 1.4	0.34 - 7.1	ug/kg		-
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	2 / 21	0.06 J H, Z	0.072 J H, S, Z	0.035 - 0.71	0.17 - 3.5	ug/kg	SL-001-SA8S	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	0 / 21	-	-	0.062 - 1.3	0.17 - 3.5	ug/kg		-
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	2 / 21	0.11 J Z	0.4 J Z	0.035 - 9.6	0.17 - 9.6	ug/kg	SL-023-SA8S	0 - 0.5

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
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Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	MCPA	94-74-6	8151A	5 / 21	300	1900 J L	78 - 340	260 - 340	ug/kg	SL-001-SA8S	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	3 / 21	110 J Z	280 J FD, L	77 - 200	260 - 270	ug/kg	SL-003-SA8S	0 - 0.5
Pesticides	Methoxychlor	72-43-5	8081A	0 / 21	-	-	0.35 - 7.1	1.7 - 35	ug/kg		-
Pesticides	Mirex	2385-85-5	8081A	0 / 21	-	-	0.068 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	Toxaphene	8001-35-2	8081A	2 / 21	4.7 J Z	17	2.3 - 140	6.8 - 140	ug/kg	SL-008-SA8S	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	0 / 21	-	-	0.68 - 0.71	1.7 - 1.8	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 21	-	-	340 - 360	1000 - 1100	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	0 / 21	-	-	0.68 - 0.71	1.7 - 1.8	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 21	-	-	100 - 110	340 - 360	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 21	-	-	68 - 72	170 - 180	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 21	-	-	34 - 36	170 - 180	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 21	-	-	68 - 72	170 - 180	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	0 / 21	-	-	0.68 - 0.71	1.7 - 1.8	ug/kg		-
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	7 / 21	0.37 J Z	5.5 J S	0.34 - 0.36	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Aniline	62-53-3	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C SIM	2 / 21	0.42 J Z	0.56 J Z	0.34 - 0.36	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 21	-	-	1200 - 1300	3400 - 3600	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	6 / 21	1 J Z	19 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	10 / 21	0.75 J Z	7.6 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	14 / 21	0.93 J Z	16	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-014-SA8S	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	7 / 21	0.8 J Z	1.8	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	12 / 21	0.72 J Z	33 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	1 / 21	230 J Z	230 J Z	170 - 180	510 - 540	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	5 / 5	19 J Z	36 J Z	17 - 18	340 - 360	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	1 / 16	300 J S	300 J S	6.1 - 6.4	18 - 19	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	4 / 4	210	260	17 - 18	170 - 180	ug/kg	SL-023-SA8S	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	13 / 17	6.4 J Z	220	6.1 - 64	18 - 190	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C SIM	14 / 21	0.46 J Z	18	0.34 - 0.36	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	2 / 21	1.5 J Z	2.2 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	0 / 21	-	-	6.1 - 6.4	18 - 19	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 21	-	-	6.1 - 6.4	18 - 19	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	1 / 21	8 J Z	8 J Z	6.1 - 6.4	18 - 19	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	0 / 21	-	-	6.1 - 6.4	18 - 19	ug/kg		-
Semivolatiles	Fluoranthene	206-44-0	8270C	1 / 1	19 J Z	19 J Z	18 - 18	180 - 180	ug/kg	SL-010-SA8S	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	11 / 20	1.3 J Z	14 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	5 / 21	0.74 J Z	5.2 J S	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 21	-	-	68 - 72	170 - 180	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	4 / 21	0.79 J Z	1.2 J Z	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	4 / 21	0.75 J Z	1 J S, Z	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 21	-	-	0.68 - 0.71	1.7 - 1.8	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 21	-	-	17 - 18	170 - 180	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 21	-	-	170 - 180	510 - 540	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	9 / 21	0.73 J Z	3.4	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	1 / 21	30 J Z	30 J Z	17 - 18	170 - 180	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	11 / 21	0.8 J Z	11	0.68 - 0.71	1.7 - 1.8	ug/kg	SL-011-SA8S	0 - 0.5

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration

I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	30 / 30	10700	30600 J E	6.24 - 6.81	20.6 - 22.5	mg/kg	SL-018-SA8S	4 - 5
Inorganic	Antimony	7440-36-0	6020	18 / 30	0.0773 J Q, Z	0.196 J Q, E, Z	0.0766 - 0.0836	0.207 - 0.226	mg/kg	SL-010-SA8S	4 - 5
Inorganic	Arsenic	7440-38-2	6020	30 / 30	4.88	16 J E	0.0828 - 0.0904	0.414 - 0.452	mg/kg	SL-010-SA8S	8.5 - 9.5
Inorganic	Barium	7440-39-3	6020	30 / 30	60 J E	189 J A	0.11 - 0.287	0.414 - 1.08	mg/kg	SL-021-SA8S	9 - 10
Inorganic	Beryllium	7440-41-7	6020	30 / 30	0.49 J E, Q	1.14 J Q, E	0.0166 - 0.0181	0.104 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Boron	7440-42-8	6010B	29 / 30	3.99 J Z	17.6	0.371 - 0.405	5.15 - 5.63	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Cadmium	7440-43-9	6020	29 / 30	0.0592 J FD, Z	0.472	0.0455 - 0.0497	0.104 - 0.113	mg/kg	SL-021-SA8S	9 - 10
Inorganic	Calcium	7440-70-2	6010B	30 / 30	3680 J E	177000	2.63 - 14	21.1 - 112	mg/kg	SL-009-SA8S	7 - 8
Inorganic	Chromium	7440-47-3	6020	30 / 30	12.7 J Q, A	57.9 J Q, E, A	0.124 - 0.136	0.414 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Chromium VI	18540-29-9	7199	23 / 30	0.24 J Z J FD, Z	3.1	0.21 - 0.23	1 - 1.2	mg/kg	SL-016-SA8S	4 - 5
Inorganic	Cobalt	7440-48-4	6020	30 / 30	5.53 J E, Q	22.6 J Q, E, A	0.0207 - 0.0226	0.104 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Copper	7440-50-8	6020	30 / 30	6.42 J A	59 J E, Q	0.0828 - 0.0904	0.414 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Fluoride	16984-48-8	300	26 / 30	0.94 J Z	8.8 J Q	0.85 - 0.93	1.1 - 1.2	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Iron	7439-89-6	6010B	30 / 30	14500 J Q	43200	2.69 - 14.7	20.6 - 113	mg/kg	SL-010-SA8S	4 - 5
Inorganic	Lead	7439-92-1	6020	30 / 30	4.81 J Q, A	26.8 J E, Q	0.0106 - 0.0115	0.207 - 0.226	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Lithium	7439-93-2	6010B	30 / 30	9.8	43.9	0.64 - 0.7	2.1 - 2.3	mg/kg	SL-022-SA8S	8 - 9
Inorganic	Magnesium	7439-95-4	6010B	30 / 30	3170	10900	0.454 - 0.495	10.3 - 11.3	mg/kg	SL-022-SA8S	8 - 9
Inorganic	Manganese	7439-96-5	6010B	30 / 30	179	516	0.0371 - 0.0405	0.515 - 0.563	mg/kg	SL-009-SA8S	7 - 8
Inorganic	Mercury	7439-97-6	7471A	5 / 30	0.008 J Z	0.0188 J Z	0.0069 - 0.008	0.0985 - 0.114	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Molybdenum	7439-98-7	6020	14 / 30	0.317	0.68	0.0518 - 0.0565	0.104 - 0.113	mg/kg	SL-021-SA8S	9 - 10
Inorganic	Nickel	7440-02-0	6020	30 / 30	7.43 J A	44.6 J Q, E	0.104 - 0.113	0.414 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Percent Moisture	MOIST	160.3M	30 / 30	5	13.4	0.5 - 0.5	0.5 - 0.5	%	SL-007-SA8S	4 - 5
Inorganic	Perchlorate	14797-73-0	314	0 / 30	-	-	9.5 - 10.4	31.6 - 34.6	ug/kg		-
Inorganic	Perchlorate	14797-73-0	6850	0 / 1	-	-	2.4 - 2.4	5.6 - 5.6	ug/kg		-
Inorganic	pH	pH	9045M	30 / 30	6.89	9.23	0.01 - 0.01	0.01 - 0.01	pH unit	SL-005-SA8S	3.5 - 4.5
Inorganic	Phosphorus	7723-14-0	6010B	30 / 30	187	608 J Q	0.361 - 0.394	10.3 - 11.3	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Potassium	9/7/7440	6010B	30 / 30	1680 J Q	4210	11.6 - 12.7	51.5 - 56.3	mg/kg	SL-022-SA8S	8 - 9
Inorganic	Selenium	7782-49-2	6020	26 / 30	0.0647 J Z	0.508	0.06 - 0.0656	0.414 - 0.452	mg/kg	SL-010-SA8S	4 - 5
Inorganic	Silver	7440-22-4	6020	21 / 30	0.0154 J Z	0.0463 J Q, E, Z	0.0147 - 0.016	0.104 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Sodium	7440-23-5	6010B	30 / 30	63.9 J Z	1030	6.13 - 6.69	103 - 113	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Strontium	7440-24-6	6010B	30 / 30	7.27	256	0.0258 - 0.0281	0.515 - 0.563	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Thallium	7440-28-0	6020	29 / 30	0.22	0.76 J Q, E	0.0311 - 0.0339	0.104 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Tin	7440-31-5	6010B	0 / 30	-	-	0.33 - 0.36	10.3 - 11.3	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	30 / 30	374	1290	0.0732 - 0.0799	1.03 - 1.13	mg/kg	SL-022-SA8S SL-023-SA8S	8 - 9 4 5
Inorganic	Vanadium	7440-62-2	6020	30 / 30	31.5 J A	123 J Q, E	0.0228 - 0.0249	0.104 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Zinc	7440-66-6	6020	30 / 30	34.7 J E, A	186 J E, A	0.58 - 0.633	3.11 - 3.39	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Zirconium	7440-67-7	6010B	30 / 30	2.17 J Z	9.49	0.474 - 0.518	5.15 - 5.63	mg/kg	SL-023-SA8S	4 - 5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	0 / 30	-	-	0.00997 - 0.0294	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	0 / 30	-	-	0.00439 - 0.0163	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	1 / 30	0.0393 J Z	0.0393 J Z	0.00664 - 0.0266	5.25 - 5.65	ng/kg	SL-015-SA8S	4 - 5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	0 / 30	-	-	0.00877 - 0.0263	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	1 / 30	0.0636 J Z	0.0636 J Z	0.00591 - 0.0346	5.25 - 5.65	ng/kg	SL-016-SA8S	4 - 5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	0 / 30	-	-	0.00911 - 0.0251	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	0 / 30	-	-	0.005 - 0.0257	5.25 - 5.65	ng/kg		-

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	0 / 30	-	-	0.00855 - 0.0249	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	0 / 30	-	-	0.00598 - 0.0244	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	5 / 30	0.0375 J Z	0.142 J Z	0.00852 - 0.0425	5.25 - 5.65	ng/kg	SL-015-SA8S	4 - 5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	0 / 30	-	-	0.00466 - 0.0193	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	0 / 30	-	-	0.00551 - 0.0195	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	0 / 30	-	-	0.00477 - 0.0181	5.25 - 5.65	ng/kg		-
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	4 / 30	0.0439 J Z	0.0695 J Z	0.00911 - 0.0606	1.05 - 1.13	ng/kg	SL-009-SA8S	4 - 5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	7 / 30	0.0343 J Z	0.0609 J Z	0.0106 - 0.0401	1.05 - 1.13	ng/kg	SL-011-SA8S	4 - 5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	2 / 30	0.49 J Z	0.51 J FD, S, L, Z	0.35 - 0.38	1.8 - 2	ug/kg	SL-018-SA8S	4 - 5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	3 / 30	0.59 J L, Z	5.5 J S, L	0.35 - 0.38	1.8 - 2	ug/kg	SL-018-SA8S	7.5 - 8.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	2 / 30	0.8 J FD, S, L, Z	1.1 J S, L, Z	0.41 - 0.45	1.8 - 2	ug/kg	SL-018-SA8S	7.5 - 8.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 30	-	-	0.35 - 0.38	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 30	-	-	1.1 - 1.2	3.5 - 3.8	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 30	-	-	1.1 - 1.2	3.5 - 3.8	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	0 / 30	-	-	1.1 - 1.2	3.5 - 3.8	ug/kg		-
PCBs and Dioxins	OCDD	3268-87-9	1613B	2 / 30	2.43 J Z	3.28 J Z	0.00979 - 0.0498	10.5 - 11.3	ng/kg	SL-010-SA8S	4 - 5
PCBs and Dioxins	OCDF	39001-02-0	1613B	0 / 30	-	-	0.00886 - 0.0594	10.5 - 11.3	ng/kg		-
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 30	-	-	350 - 380	1100 - 1200	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 30	-	-	110 - 120	350 - 380	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 30	-	-	70 - 77	180 - 190	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 30	-	-	35 - 38	180 - 190	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 30	-	-	70 - 77	180 - 190	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	0 / 30	-	-	0.35 - 0.38	1.8 - 1.9	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C SIM	0 / 30	-	-	0.35 - 0.38	1.8 - 1.9	ug/kg		-
Semivolatiles	Benzidine	92-87-5	8270C	0 / 30	-	-	1200 - 1300	3500 - 3800	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	1 / 30	1 J Z	1 J Z	0.7 - 0.76	1.8 - 1.9	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	1 / 30	0.82 J Z	0.82 J Z	0.7 - 0.76	1.8 - 1.9	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	3 / 3	19 J Z	23 J Z	18 - 19	370 - 370	ug/kg	SL-012-SA8S	4 - 5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	10 / 27	6.8 J Z	34	6.3 - 6.8	19 - 20	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	4 / 30	10 J Z	23	6.3 - 6.8	19 - 20	ug/kg	SL-012-SA8S	4 - 5
Semivolatiles	Carbazole	86-74-8	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C SIM	0 / 30	-	-	0.35 - 0.38	1.8 - 1.9	ug/kg		-
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	0 / 30	-	-	6.3 - 6.8	19 - 20	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 30	-	-	6.3 - 6.8	19 - 20	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	1 / 30	8.2 J Z	8.2 J Z	6.3 - 6.8	19 - 20	ug/kg	SL-016-SA8S	4 - 5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	3 / 30	9.1 J Z	50	6.3 - 6.8	19 - 20	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C	1 / 1	49 J Z	49 J Z	19 - 19	190 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	0 / 29	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Fluorene	86-73-7	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 30	-	-	70 - 77	180 - 190	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	1 / 30	0.87 J Z	0.87 J Z	0.7 - 0.76	1.8 - 1.9	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 30	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	**Detection Frequency**	**Minimum Concentration**	**Maximum Concentration**	**Range of Method Detection Limit**	**Range of Method Reporting Limit**	**Unit**	**Location of Maximum Concentration**	**Depth of Maximum Concentration**
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 30	-	-	180 - 190	530 - 580	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	1 / 1	52 J Z	52 J Z	19 - 19	190 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	0 / 29	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-
Semivolatiles	Phenol	108-95-2	8270C	0 / 30	-	-	18 - 19	180 - 190	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	1 / 1	35 J Z	35 J Z	19 - 19	190 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Pyrene	129-00-0	8270C SIM	0 / 29	-	-	0.7 - 0.76	1.8 - 1.9	ug/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Aluminum	7429-90-5	6010B	51 / 51	10700	30600 J E	5.95 - 6.81	19.7 - 22.5	mg/kg	SL-018-SA8S	4 - 5
Inorganic	Antimony	7440-36-0	6020	38 / 51	0.0723* J Q, Z	0.225* J Q	0.0721 - 0.0836	0.195 - 0.226	mg/kg	SL-001-SA8S	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	51 / 51	4.49 J E, Q	16 J E	0.0779 - 0.0904	0.39 - 0.452	mg/kg	SL-010-SA8S	8.5 - 9.5
Inorganic	Barium	7440-39-3	6020	51 / 51	60 J E	189 J A	0.103 - 0.287	0.39 - 1.08	mg/kg	SL-021-SA8S	9 - 10
Inorganic	Beryllium	7440-41-7	6020	51 / 51	0.418	1.14 J Q, E	0.0156 - 0.0181	0.0974 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Boron	7440-42-8	6010B	50 / 51	1.70* J Z	17.6*	0.354 - 0.405	4.92 - 5.63	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Cadmium	7440-43-9	6020	50 / 51	0.0592* J FD, Z	0.472*	0.0428 - 0.0497	0.0974 - 0.113	mg/kg	SL-021-SA8S	9 - 10
Inorganic	Calcium	7440-70-2	6010B	51 / 51	3480 J E	242000	2.46 - 14	19.7 - 112	mg/kg	SL-007-SA8S	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	51 / 51	12.7 J Q, A	57.9 J Q, E, A	0.117 - 0.136	0.39 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Chromium VI	18540-29-9	7199	38 / 51	0.24* J Z J FD, Z	3.1*	0.2 - 0.23	1 - 1.2	mg/kg	SL-016-SA8S	4 - 5
Inorganic	Cobalt	7440-48-4	6020	51 / 51	4.85 J Q, A	22.6 J Q, E, A	0.0195 - 0.0226	0.0974 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Copper	7440-50-8	6020	51 / 51	6.42 J A	59 J E, Q	0.0779 - 0.0904	0.39 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Fluoride	16984-48-8	300	31 / 50	0.92* J Q, Z	8.8* J Q	0.81 - 0.93	1 - 1.2	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Iron	7439-89-6	6010B	51 / 51	11100	43200	2.57 - 14.7	19.7 - 113	mg/kg	SL-010-SA8S	4 - 5
Inorganic	Lead	7439-92-1	6020	51 / 51	4.81 J Q, A	26.8 J E, Q	0.0099 - 0.0115	0.195 - 0.226	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Lithium	7439-93-2	6010B	51 / 51	9.8	43.9	0.61 - 0.7	2 - 2.3	mg/kg	SL-022-SA8S	8 - 9
Inorganic	Magnesium	7439-95-4	6010B	51 / 51	3170	10900	0.433 - 0.495	9.83 - 11.3	mg/kg	SL-022-SA8S	8 - 9
Inorganic	Manganese	7439-96-5	6010B	51 / 51	167	516	0.0354 - 0.0405	0.492 - 0.563	mg/kg	SL-009-SA8S	7 - 8
Inorganic	Mercury	7439-97-6	7471A	21 / 51	0.0074* J Z	0.0414* J Z	0.0068 - 0.008	0.0965 - 0.114	mg/kg	SL-008-SA8S	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	35 / 51	0.130*	2.03* J Q	0.0487 - 0.0565	0.0974 - 0.113	mg/kg	SL-013-SA8S	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	51 / 51	7.43 J A	44.6 J Q, E	0.0974 - 0.113	0.39 - 0.452	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Percent Moisture	MOIST	160.3M	51 / 51	2.2	13.4	0.5 - 0.5	0.5 - 0.5	%	SL-007-SA8S	4 - 5
Inorganic	Perchlorate	14797-73-0	314	0 / 51	-	-	9.2 - 10.4	30.7 - 34.6	ug/kg		-
Inorganic	Perchlorate	14797-73-0	6850	0 / 1	-	-	2.4 - 2.4	5.6 - 5.6	ug/kg		-
Inorganic	pH	pH	9045M	51 / 51	6.52	9.23	0.01 - 0.01	0.01 - 0.01	pH unit	SL-005-SA8S	3.5 - 4.5
Inorganic	Phosphorus	7723-14-0	6010B	51 / 51	187	864	0.344 - 0.394	9.83 - 11.3	mg/kg	SL-017-SA8S	0 - 0.5
Inorganic	Potassium	9/7/7440	6010B	51 / 51	1460 J Q	6450	11.1 - 12.7	49.2 - 56.3	mg/kg	SL-016-SA8S	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	47 / 51	0.0647* J Z	0.631*	0.0565 - 0.0656	0.39 - 0.452	mg/kg	SL-024-SA8S	0 - 0.5
Inorganic	Silver	7440-22-4	6020	32 / 51	0.0154* J Z	0.0746* J Z	0.0138 - 0.016	0.0974 - 0.113	mg/kg	SL-017-SA8S	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	51 / 51	57.7 J Z	1030	5.85 - 6.69	98.3 - 113	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Strontium	7440-24-6	6010B	51 / 51	7.27	256	0.0246 - 0.0281	0.492 - 0.563	mg/kg	SL-005-SA8S	3.5 - 4.5
Inorganic	Thallium	7440-28-0	6020	50 / 51	0.123* J Q	0.760* J Q, E	0.0292 - 0.0339	0.0974 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Tin	7440-31-5	6010B	0 / 51	-	-	0.315 - 0.36	9.83 - 11.3	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	51 / 51	374	1490	0.0706 - 0.0799	0.994 - 1.13	mg/kg	SL-012-SA8S	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	51 / 51	30.6 J A	123 J Q, E	0.0214 - 0.0249	0.0974 - 0.113	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Zinc	7440-66-6	6020	51 / 51	27.9	186 J E, A	0.545 - 0.633	2.92 - 3.39	mg/kg	SL-023-SA8S	4 - 5
Inorganic	Zirconium	7440-67-7	6010B	51 / 51	1.5 J Z	9.49	0.452 - 0.518	4.92 - 5.63	mg/kg	SL-023-SA8S	4 - 5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	20 / 51	1.64* J Z	6.20*	0.00997 - 0.059	5 - 5.65	ng/kg	SL-014-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	13 / 51	0.474* J Z	1.50* J Z	0.00439 - 0.0323	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	3 / 51	0.0393* J Z	0.617* J Z	0.00664 - 0.0515	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	19 / 51	0.0315* J Z	0.224* J Z	0.00877 - 0.0487	5 - 5.65	ng/kg	SL-013-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	13 / 51	0.0398* J Z	6.21*	0.00591 - 0.076	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	13 / 51	0.169* J Z	0.430* J Z	0.00911 - 0.049	5 - 5.65	ng/kg	SL-010-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	5 / 51	0.133* J Z	1.61* J Z	0.005 - 0.0614	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	16 / 51	0.0989* J Z	0.350* J Z	0.00855 - 0.069	5 - 5.65	ng/kg	SL-016-SA8S	0 - 0.5

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	4 / 51	0.0642* J Z	0.718* J Z	0.00598 - 0.0889	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	22 / 51	0.0375* J Z	0.188* J Z	0.00852 - 0.0668	5 - 5.65	ng/kg	SL-013-SA8S	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	11 / 51	0.0992* J Z	8.38*	0.00466 - 0.11	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	4 / 51	0.183* J Z	1.40* J Z	0.00551 - 0.0674	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	12 / 51	0.165* J Z	5.72*	0.00477 - 0.122	5 - 5.65	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	11 / 51	0.0343* J Z	0.0695* J Z	0.00911 - 0.0606	1 - 1.13	ng/kg	SL-009-SA8S	4 - 5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	22 / 51	0.0343* J Z	9.38*	0.0106 - 0.112	1 - 1.13	ng/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	5 / 51	0.49* J Z	500*	0.34 - 34	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	14 / 51	0.59* J L, Z	1500*	0.34 - 34	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	13 / 51	0.55* J Z	220*	0.4 - 41	1.7 - 180	ug/kg	SL-018-SA8S	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 51	-	-	0.34 - 34	1.7 - 180	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 51	-	-	1 - 100	3.4 - 340	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 51	-	-	1 - 100	3.4 - 340	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	9 / 51	1.4* J Z	5.5*	1 - 100	3.4 - 340	ug/kg	SL-010-SA8S	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	23 / 51	2.43* J Z	86.6*	0.00979 - 0.0762	10 - 11.3	ng/kg	SL-015-SA8S	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	14 / 51	1.15* J Z	2.83* J Z	0.00886 - 0.092	10 - 11.3	ng/kg	SL-021-SA8S	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 21	-	-	4.5 - 4.7	9.2 - 9.7	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	5 / 21	0.94* J Z	4.0*	0.63 - 1.6	1.7 - 1.8	ug/kg	SL-019-SA8S	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	1 / 21	0.22*	0.22*	0.084 - 0.28	0.17 - 0.28	ug/kg	SL-005-SA8S	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	3 / 21	0.20* J L	0.26* J L	0.077 - 0.15	0.17 - 0.18	ug/kg	SL-013-SA8S	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	0 / 21	-	-	1.2 - 1.3	3.7 - 3.9	ug/kg		-
Pesticides	4,4'-DDD	72-54-8	8081A	0 / 21	-	-	0.067 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	4,4'-DDE	72-55-9	8081A	18 / 21	0.44*	8.8*	0.067 - 59	0.35 - 59	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	17 / 21	0.29* J H, Z	4.9*	0.067 - 74	0.35 - 74	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	0 / 21	-	-	0.067 - 1.4	0.17 - 3.5	ug/kg		-
Pesticides	Alpha-BHC	319-84-6	8081A	0 / 21	-	-	0.035 - 0.71	0.17 - 3.5	ug/kg		-
Pesticides	Beta-BHC	319-85-7	8081A	0 / 21	-	-	0.061 - 1.3	0.17 - 3.5	ug/kg		-
Pesticides	Chlordane	57-74-9	8081A	16 / 21	1.2* J S, Z	6.0*	0.82 - 51	3.5 - 71	ug/kg	SL-008-SA8S	0 - 0.5
Pesticides	Delta-BHC	319-86-8	8081A	11 / 21	0.040* J Z	12*	0.037 - 1.4	0.17 - 3.5	ug/kg	SL-023-SA8S	0 - 0.5
Pesticides	Dicamba	1918-00-9	8151A	2 / 21	0.45* J Z	0.61* J Z	0.41 - 0.43	1.2 - 1.3	ug/kg	SL-019-SA8S	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	0 / 21	-	-	0.82 - 0.86	1.7 - 1.8	ug/kg		-
Pesticides	Dieldrin	60-57-1	8081A	1 / 21	0.33* J Z	0.33* J Z	0.068 - 25	0.35 - 25	ug/kg	SL-016-SA8S	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	0 / 21	-	-	0.82 - 0.86	2.5 - 2.6	ug/kg		-
Pesticides	Endosulfan I	959-98-8	8081A	1 / 21	0.12* J Z	0.12* J Z	0.045 - 0.92	0.17 - 3.5	ug/kg	SL-016-SA8S	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	0 / 21	-	-	0.067 - 12	0.35 - 12	ug/kg		-
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	0 / 21	-	-	0.068 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	Endrin	72-20-8	8081A	0 / 21	-	-	0.068 - 8.1	0.35 - 8.1	ug/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	8081A	0 / 21	-	-	0.068 - 6.7	0.35 - 7.1	ug/kg		-
Pesticides	Endrin Ketone	53494-70-5	8081A	0 / 21	-	-	0.068 - 1.4	0.34 - 7.1	ug/kg		-
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	2 / 21	0.060* J H, Z	0.072* J H, S, Z	0.035 - 0.71	0.17 - 3.5	ug/kg	SL-001-SA8S	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	0 / 21	-	-	0.062 - 1.3	0.17 - 3.5	ug/kg		-

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	2 / 21	0.11* J Z	0.40* J Z	0.035 - 9.6	0.17 - 9.6	ug/kg	SL-023-SA8S	0 - 0.5
Pesticides	MCPA	94-74-6	8151A	5 / 21	300*	1900* J L	78 - 340	260 - 340	ug/kg	SL-001-SA8S	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	3 / 21	110* J Z	280* J FD, L	77 - 200	260 - 270	ug/kg	SL-003-SA8S	0 - 0.5
Pesticides	Methoxychlor	72-43-5	8081A	0 / 21	-	-	0.35 - 7.1	1.7 - 35	ug/kg		-
Pesticides	Mirex	2385-85-5	8081A	0 / 21	-	-	0.068 - 1.4	0.35 - 7.1	ug/kg		-
Pesticides	Toxaphene	8001-35-2	8081A	2 / 21	4.7* J Z	17*	2.3 - 140	6.8 - 140	ug/kg	SL-008-SA8S	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	0 / 51	-	-	0.68 - 0.76	1.7 - 1.9	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 51	-	-	340 - 380	1000 - 1200	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	0 / 51	-	-	0.68 - 0.76	1.7 - 1.9	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 51	-	-	100 - 120	340 - 380	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 51	-	-	68 - 77	170 - 190	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 51	-	-	34 - 38	170 - 190	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 51	-	-	68 - 77	170 - 190	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	0 / 51	-	-	0.68 - 0.76	1.7 - 1.9	ug/kg		-
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	7 / 51	0.37* J Z	5.5* J S	0.34 - 0.38	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Aniline	62-53-3	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C SIM	2 / 51	0.42* J Z	0.56* J Z	0.34 - 0.38	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 51	-	-	1200 - 1300	3400 - 3800	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	6 / 51	1.0* J Z	19* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	10 / 51	0.75* J Z	7.6* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	15 / 51	0.93* J Z	16*	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-014-SA8S	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	8 / 51	0.80* J Z	1.8*	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	12 / 51	0.72* J Z	33* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	1 / 51	230* J Z	230* J Z	170 - 190	510 - 580	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	8 / 8	19 J Z	36 J Z	17 - 19	340 - 370	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	11 / 43	6.8* J Z	300* J S	6.1 - 6.8	18 - 20	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	4 / 4	210	260	17 - 18	170 - 180	ug/kg	SL-023-SA8S	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	17 / 47	6.4* J Z	220*	6.1 - 64	18 - 190	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C SIM	14 / 51	0.46* J Z	18*	0.34 - 0.38	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	2 / 51	1.5* J Z	2.2* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	0 / 51	-	-	6.1 - 6.8	18 - 20	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 51	-	-	6.1 - 6.8	18 - 20	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	2 / 51	8.0* J Z	8.2* J Z	6.1 - 6.8	18 - 20	ug/kg	SL-016-SA8S	4 - 5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	3 / 51	9.1* J Z	50*	6.1 - 6.8	18 - 20	ug/kg	SL-017-SA8S	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C	2 / 2	19 J Z	49 J Z	18 - 19	180 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	11 / 49	1.3* J Z	14* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	5 / 51	0.74* J Z	5.2* J S	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 51	-	-	68 - 77	170 - 190	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	5 / 51	0.79* J Z	1.2* J Z	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C SIM	4 / 51	0.75* J Z	1.0* J S, Z	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-021-SA8S	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 51	-	-	0.68 - 0.76	1.7 - 1.9	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 51	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 51	-	-	170 - 190	510 - 580	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	1 / 1	52 J Z	52 J Z	19 - 19	190 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	9 / 50	0.73* J Z	3.4*	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	1 / 51	30* J Z	30* J Z	17 - 19	170 - 190	ug/kg	SL-016-SA8S	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C	1 / 1	35 J Z	35 J Z	19 - 19	190 - 190	ug/kg	SL-020-SA8S	4 - 5
Semivolatiles	Pyrene	129-00-0	8270C SIM	11 / 50	0.80* J Z	11*	0.68 - 0.76	1.7 - 1.9	ug/kg	SL-011-SA8S	0 - 0.5

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils
HSA - 8 South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration

L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Section 4
Data Usability Assessment

The purposes of the DUAR provided in Appendix C and summarized here are to: (1) describe the data validation processes performed on the data sets and (2) determine whether the sample results meet the data quality objectives (DQOs) outlined in the *Master Work Plan/Field Sampling and Analysis Plan Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Smith 2011a).

4.1 Usability Summary

For the Subarea 8 North and 8 South data usability assessment, 72 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date the samples were received by the laboratory. A data set is called a SDG. The analyses performed are discussed in Sections 2.5.1 and 2.5.2.

Samples were collected and analyzed in accordance with the WP/FSAP (CDM Smith 2011a), with the exception of deviations during the field investigation as stated in Section 2.7.

The data generated for the Subarea 8 North and 8 South samples, together with the added data validation qualifiers are usable as reported, with the exception of five individual analyte results (0.01 percent of all analytes) that were rejected for Subarea 8 North data (five SVOC results) and 31 individual analyte results (two pesticide results, 24 herbicide results and five SVOC results) (0.40 percent of all analytes) that were rejected for Subarea 8 South data. These rejected data do not impact project objectives and goals. Specific details are provided in the validation reports in Appendix C and Section 4.7.

4.2 Data Validation Procedures

Data were validated by the independent data validation firm Laboratory Data Consultants, Inc. All data validation was conducted in accordance with *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 2004), *EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2008), and *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (EPA 2005).

The data validation strategy was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III protocols (all QC parameters except calibrations and raw data).

Table 4-1 shows all SDGs that include Subarea 8 North and 8 South soil samples and those SDGs that were validated as Level III or Level IV. Some SDGs contain samples from other subareas, but all samples in an SDG were validated together.

Table 4-1 Sample Delivery Groups and Validation Levels for Subarea 8 North and 8 South

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
8 North		
DE124	Level III	
DE125	Level IV	
DE126	Level III	
DE127	Level III	
DE129	Level III	
DE130	Level IV	
DE131	Level III	
DE132	Level III	
DE134	Level IV	Yes
DE135	Level III	
DE136	Level III	
DE137	Level III	
DE138	Level III	
DE139	Level III	
DE140	Level III	
DE141	Level III	
DE142	Level III	
DE143	Level III	
DE144	Level III	Yes
DE145	Level III	
DE146	Level III	
DE147	Level III	
DE148	Level III	
DE149	Level III	
DE150	Level III	
DE165	Level III	
DE166	Level III	
DE167	Level III	
DE174	Level III	
DE175	Level III	Yes
DE176	Level IV	
DE177	Level III	
DE178	Level III	
DE183	Level III	
DX068	Level III	
DX069	Level III	
DX070	Level III	
DX071	Level III	
DX072	Level IV	Yes
DX073	Level III	
DX074	Level III	
DX076	Level III	
DX077	Level III	
DX078	Level IV	
DX079	Level III	
DX080	Level III	
DX081	Level III	
DX091	Level III	Yes
DX093	Level III	
DX094	Level III	

Table 4-1 Sample Delivery Groups and Validation Levels for Subarea 8 North and 8 South

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
8 North (cont.)		
DX099	Level III	
DX100	Level IV	
DX101	Level III	
DX103	Level III	
Sample Delivery Group	**Level of Validation Performed**	**CDM Smith Review**
8 South		
DE258	Level III	
DE259	Level III	
DE273	Level III	
DE277	Level III	
DE286	Level III	
DE287	Level III	Yes
DE288	Level III	
DE289	Level III	
DE291	Level III	
DE292	Level III	
DX145	Level III	
DX146	Level III	
DX147	Level IV	Yes
DX150	Level III	
DX152	Level III	
DX155	Level III	
DX156	Level III	
DX157	Level IV	

Note: During sampling in Subarea 8 North and 8 South, subsurface samples were still being collected from Subarea 5A, and sampling began in Subarea 5D North. Thus some sample delivery groups may also contain results for samples from Subareas 5A and/or 5D North.

An index of samples associated with each SDG is presented at the beginning of Appendix C. The WP/FSAP (CDM Smith 2011a) defined the procedures to be followed and the data quality requirements for the field sampling.

In order to evaluate the quality of the laboratory and the validation firm, CDM Smith chemists reviewed 10 percent of the Subarea 8 North and 8 South soil sample SDGs. The purpose of the review was to identify any QC issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM Smith's review. The results of this review are provided in Section 4.8.

4.3 Quality Assurance Objectives

Quality assurance (QA) objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The QA objectives provide a mechanism for evaluating and measuring data quality.

A review of the collected data is necessary to determine if DQOs established in the WP/FSAP (CDM Smith 2011a) have been met. The following data measurement tasks were evaluated:

- Specification and adherence to analytical method and reporting detection limit requirements
- Identification of the appropriate laboratory analytical QC requirements and verification of whether these QC requirements were met
- Verification that measurement performance criteria (representativeness and completeness) for the data were met
- Verification that field procedures were followed, deviations were documented, and determination of impact on data quality as a result of these deviations

The data validation review determines if the collected data are of sufficient quality (except for the rejected results) to support their intended use.

4.4 Summary of Field and Laboratory QA Activities

CDM Smith completed sampling activities in Subarea 8 North and 8 South in accordance with the approved WP/FSAP (CDM Smith 2011a) and Addendum to the WP/FSAP (CDM Smith 2011b). A total of 202 soil samples were collected and analyzed from 13 drainage locations, 73 surface locations, and 89 soil boring locations for Subarea 8 North. For Subarea 8 South 54 soil samples were collected and analyzed from 21 surface locations, and 21 soil boring locations. Table 2-1 and Table 2-2 provide a summary of the samples collected and the laboratory analyses requested.

An index of samples associated with each SDG is presented at the beginning of Appendix C. The WP/FSAP (CDM Smith 2011a) defined the procedures to be followed and the data quality requirements for the field sampling.

4.5 Field Quality QA/QC

The field QC samples were collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. MS/MSD and field duplicate samples were collected by CDM Smith at 11 sample locations for Subarea 8 North and 3 sample locations for Subarea 8 South and analyzed by LLI. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM Smith 2011a).

As discussed in Section 2.4.2, 15 equipment rinsate blank samples were collected for Subarea 8 North and two were collected for Subarea 8 South. One field blank sample was collected for Subarea 8 North. No field blank samples were collected for Subarea 8 South. The equipment rinsate blank and field blank results are presented in Appendix C and a summary of the detected results is presented in Tables 4-2 through 4-4.

Table 4-2 Equipment Blanks for Subarea 8 North Soil Samples – Detected Results Only

EB01-SA8N-041211 EB01-SA8N 04/12/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Bis(2-Ethylhexyl) phthalate	µg/L	4.9/5	
Diethylphthalate	µg/L	0.13/1.1	J
Di-N-Butylphthalate	µg/L	0.51/1.1	J
Di-N-Octyl Phthalate	µg/L	4.7/5	J
FB02-SA8N-SS-041311 EB02-SA8N 04/13/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Bis(2-Ethylhexyl) phthalate	µg/L	3.2/5	
Diethylphthalate	µg/L	0.13/1	J
Di-N-Butylphthalate	µg/L	0.53/1	J
Di-N-Octyl Phthalate	µg/L	3/5	J
Naphthalene	µg/L	0.034/0.05	J
Phenanthrene	µg/L	0.018/0.05	J
EB05-SA8N-SS-041811 EB05-SA8N 04/18/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Bis(2-Ethylhexyl) phthalate	µg/L	0.72/5	J
Butylbenzylphthalate	µg/L	0.33/1	J
Calcium	µg/L	0.0949/0.2	J
Di-N-Butylphthalate	µg/L	0.37/1.9	J
Di-N-Octyl Phthalate	µg/L	0.52/1.9	J
EB06-SA8N-SS-041911 EB06-SA8N 04/19/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Bis(2-Ethylhexyl) phthalate	µg/L	0.13/5	J
Calcium	mg/l	0.0796/0.2	J
Diethylphthalate	µg/L	0.057/1	J
Di-N-Butylphthalate	µg/L	0.3/1	J
Di-N-Octyl Phthalate	µg/L	0.25/1	J
Formaldehyde	µg/L	15/50	J
EB07-SA8N-SS-042011 EB07-SA8N 04/20/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1,2,3,7,8,9-Hexachlorodibenzofuran	pg/L	0.596/9.76	J
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/L	0.389/9.76	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.16/5	J
Calcium	mg/L	0.08/0.2	J
Diethylphthalate	µg/L	0.074/0.99	J
Di-N-Butylphthalate	µg/L	0.31/0.99	J
Naphthalene	µg/L	0.033/0.05	J

Table 4-2 Equipment Blanks for Subarea 8 North Soil Samples – Detected Results Only (cont.)

EB09-SA8N-SB-051011 EB09-SA8N 05/10/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.148/10.3	J
Diethylphthalate	µg/L	0.12/1	J
Naphthalene	µg/L	0.032/0.05	J
EB10-SA8N-SB-051111 EB10-SA8N 05/11/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
RDX	µg/L	0.61/0.6	
EB11-SA8N-SB-052611 EB11-SA8N 05/26/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.033/0.052	J
2-Methylnaphthalene	µg/L	0.034/0.052	J
Benzene	µg/L	1/5	J
Di-N-Butylphthalate	µg/L	0.065/0.97	J
Naphthalene	µg/L	0.25/0.052	
Toluene	µg/L	0.7/5	J
EB16-SA8N-SB-060811 EB16-SA8N 06/08/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Diethylphthalate	µg/L	0.3/1	J
Di-N-Butylphthalate	µg/L	0.71/1	J
Lead	mg/L	0.000066/0.001	J
Naphthalene	µg/L	0.06/0.052	J
EB17-SA8N-SB-060911 EB17-SA8N 06/09/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
RDX	µg/L	0.43/0.6	J

Notes:
RL = Reporting Limit
µg/L = microgram per liter
mg/L = milligram per liter
pg/L =- picogram per liter
ng/L = nanogram per liter
RDX = 1,3,5-Trinitroperhydro-1,3,5-triazine

Table 4-3 Equipment Blank for Subarea 8 South Soil Samples – Detected Results Only

EB-SA8S-SB-111711 11/17/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1,2,3,7,8,9-HxCDF	pg/L	0.276/10.5	J
1,2,3,7,8-PeCDD	pg/L	0.347/10.5	J
2-Methylnaphthalene	µg/L	0.012/0.053	J
Diethylphthalate	µg/L	0.066/1.1	J
Di-n-Butylphthalate	µg/L	0.31/1.1	J
Di-N-Octyl Phthalate	µg/L	0.084/1.1	J
Naphthalene	µg/L	0.066/0.053	

Note:
RL = Reporting Limit
µg/L = microgram per liter
pg/L = picogram per liter

Table 4-4 Field Blanks for Subarea 8 North Soil Samples – Detected Results Only

FB07-SA8N-QC-042711 FB07-SA8N 04/27/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.026/0.05	J
2-Methylnaphthalene	µg/L	0.030/0.05	J
Naphthalene	µg/L	0.22/0.05	

Note:
RL = Reporting Limit
µg/L = microgram per liter

Thirty trip blank samples were shipped with the Subarea 8 North samples and two trip blank samples were shipped with the Subarea 8 South samples. The results for these samples are presented in Appendix C and a summary of the detected results is presented in Table 4-5 and Table 4-6. Data qualifications based on blank detections and impacts to the data due to contaminants detected in the field blanks are discussed in Section 4.7.3 and in the Appendix C validation reports.

Table 4-5 Trip Blanks for Subarea 8 North Soil Samples – 8N Detected Results Only

TB-052711 05/27/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Benzene	µg/L	1/5	J
Toluene	µg/L	0.7/5	J

Note:
RL = Reporting Limit
µg/L = microgram per liter

Table 4-6 Trip Blanks for Subarea 8 South Soil Samples – 8S Detected Results Only

TB-052711 05/27/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
N-Nitrosodimethylamine	ng/L	4.12/0.991	J

Note:
RL = Reporting Limit
ng/L = nanogram per liter

Temperature blanks were included with each shipment of samples. If a temperature blank was inadvertently left out of a cooler, the laboratory took the temperature of the cooler immediately upon receipt.

The number of field QC samples collected satisfies the minimum requirements for the Subarea 8 North and 8 South sampling events.

Field QA/QC objectives were attained through the use of appropriate sampling techniques and collection of the required number and frequency of QC samples.

4.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, LCSs, MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in Appendix C with the appropriate qualifiers applied. Five individual analyte results for 8 North (0.01 percent of all the analytes) and 31 individual analyte results for 8 South (0.4 percent of all analytes) were rejected as discussed in Section 4.7 and in Appendix C.

4.7 Data Quality Indicators

This section summarizes the validation performed. Individual SDG validation reports with specific sample detail are provided in Appendix C.

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) described in the DUAR in Appendix C. These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

4.7.1 Precision

Precision is the measurement of the ability to obtain the same value on re-analysis of a sample through the entire analytical process. The closer the measurement results, the greater is the precision. Precision has nothing to do with accuracy or true values of the sample. Instead, it is focused on random errors inherent in the analysis that stem from the measurement process and are compounded by the non-homogeneous nature of some samples. Precision is measured by analyzing two portions of the sample (sample and duplicate) and then comparing the results. This comparison can be expressed in terms of relative percent difference (RPD). RPD is calculated as the absolute difference between the two measurements divided by the average of the two measurements.

$$RPD = \frac{[(A-B)/\underline{A+B}] \times 100}{2}$$

The problem with this formula is that it depends on the average of the two measurements and the magnitude of the calculated RPD is intimately linked to the magnitude of the results. When sample results are close to the RL, the RPD is greater but does not necessarily indicate that the precision is out of control limits, just that the sample concentrations are low.

RPD as a measure of precision works very well in those cases where the same level of analyte is present in all samples; however, it does not work well as a quantitative tool when varying levels are present. Analysis of sample duplicates is valuable as a quantitative measure of precision but is not useful as a quantitative measure in environmental sample analyses. Another option that is used for evaluating the differences between sample results that are close to the RL is calculating the absolute difference between the results. In this situation, the difference between the sample results is compared to the RL (2 times the RL for soils) and if the difference is greater, the sample results are qualified as estimated "J."

Because of these problems, precision is normally calculated on spike samples, either on an MS and MSD or on a LCS and laboratory control sample duplicate (LCSD). In this case, a known concentration of analyte has been created in each sample and long and short term evaluations of RPD can be made that are applicable to the reality of the measurement. The drawback is that the precision measurement is only applicable to the particular spike level used.

For the Subarea 8 North and 8 South soil data set, precision was evaluated by reviewing RPD results for MS/MSDs, LCS/LCSDs, laboratory duplicates, and field duplicates.

Laboratory RPD control limits are presented in the WP/FSAP (CDM Smith 2011a) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than 2 times the RL, a control limit of the absolute difference value equal to the RL was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated using the following: If one result is non-detect and the other result is above the RL, the RPD result is reported at 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" for a detect value or "UJ" for a nondetect value. If the field duplicate RPD is above the 50 percent criterion (and both sample results were above the RL) the field duplicate and parent sample results for that analyte are qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details of the validation and the number of analytes qualified are provided in the DUAR and laboratory validation reports in Appendix C.

The following Subarea 8 North individual analyte results were qualified as estimated "J/UJ" based on precision criteria:

- Some of the dioxin, fluoride/nitrate, metals, mercury, TPHs and glycols and PCBs/PCTs analyte results due to laboratory precision criteria
- Some of the dioxin and PCB/PCT analyte results as RPD results between the two columns were outside of criteria

The following Subarea 8 South individual analyte results were qualified as estimated "J/UJ" based on precision criteria:

- Some of the metals and PCB/PCT analyte results due to laboratory precision criteria

Field duplicate precision criteria required the qualification of some dioxin results, NDMA results, fluoride/nitrate results, various metal analyte results, hexavalent chromium results, mercury results, TPH and glycol results, PCB/PCT results, VOC results, SVOC results, and SVOC SIM results for Subarea 8 North samples. For 8 South samples, some dioxin results, fluoride/nitrate results, various metal analyte results, hexavalent chromium results, pesticide results, PCB/PCT results and herbicide results were also qualified based on field duplicate precision criteria. The associated results were qualified as estimated "J/UJ" due to field duplicate precision criteria. No results were rejected based on field duplicate precision criteria. All field duplicate RPD results are presented in Appendix C.

There was no discernable pattern or reason for the laboratory and field sample RPD exceedances identified. No field sampling issues were identified that would cause the RPD results that were outside of criteria. These exceedances are reasonable for this type of sampling activity. Sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

4.7.2 Accuracy

Accuracy is a concept from quantitative analysis that attempts to address the question of how close the analytical result is to the true value of the analyte in the sample. Accuracy is determined through a spike procedure, where a known amount of the target analyte is added to a portion of the sample then the sample and the spiked sample are analyzed. The quantitative measure of accuracy is percent recovery (%R) calculated as follows:

$$\textbf{Percent Recovery} = \frac{(\text{Total Analyte Found} - \text{Analyte Originally Present})}{\text{Analyte Added}} \times 100$$

Each measurement performed on a sample is subject to random and systematic error. Accuracy is related to the systematic error. Attempts to assess systematic error are always complicated by the inherent random error of the measurement.

Analytical accuracy for the entire data collection activity is difficult to assess because several sources of error exist. Errors can be introduced by any of the following:

- Sampling procedure
- Field contamination
- Sample preservation and handling
- Sample matrix
- Sample preparation
- Analytical techniques

Accuracy is maintained to the extent possible by adhering to the EPA method and approved field and analytical standard operating procedures.

The following QC samples are used to assess laboratory accuracy:

Matrix Spikes: MSs are samples with a known amount of a target analyte added to them. Analysis of the sample that has been spiked and comparison with the results from the unspiked sample (background) gives information about the ability of the test procedure to generate a correct result from the sample.

Reporting Limit Matrix Spikes: RL-MSs are samples to which a known amount of a target analyte has been added to the sample at the reporting limit concentration. Analysis of the sample that has been spiked and comparison with the results from the unspiked sample (background) gives information about the ability of the test procedure to generate a correct result from the sample. The RL-MS is designed to verify the laboratory methods ability to accurately quantitate the spiked compound at the RL in site matrix. The RL-MS is an extra QC sample used for the modified methods identified in Table 2-3.

Post Digestion Spikes: Post digestion spikes are performed after the sample has been prepared and are ready for analysis. These are also termed "analytical spikes." The technique is used in conjunction with a MS to provide data that can separate interferences produced as part of the sample preparation from interferences that are innate qualities of the sample.

Laboratory Control Samples: LCSs consist of a portion of analyte-free water or solid phase sample that is spiked with target analytes at a known concentration.

Reporting Limit Laboratory Control Samples: RL-LCSs consist of a portion of analyte-free water or solid phase sample that is spiked at the reporting limit with target analytes at a known concentration. The RL-LCS is designed to verify the laboratory methods ability to accurately quantitate the spiked compound at the RL. The RL-LCS is an extra QC sample used for the modified methods identified in Table 2-3.

Surrogates: Surrogate recovery is a QC measure limited to use in organics analysis. Surrogates are compounds added to every sample at the beginning of the sample preparation to monitor the success of the sample preparation and analytical procedures on an individual sample basis. Individual compounds used as surrogates are selected based on their ability to mimic the behavior of specific target analytes held to be particularly sensitive to the sample preparation manipulations.

Interference Check Samples: Interference check sample analysis is a QC measure unique to metals analysis using inductively coupled plasma atomic emission spectrometry. This QC sample verifies the analytical instrument's ability to overcome interferences typical of those found in samples.

Calibrations: Method requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable quantitative data for metals. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run. Continuing calibrations demonstrate that the initial calibration is still valid by checking the performance of the instrument on a continuing basis.

Internal Standards: Internal standard performance criteria ensures that Gas Chromatograph/ Mass Spectrometer sensitivity and response are stable during each analysis.

Serial Dilution: Serial dilutions are performed on at least one sample from every batch of analyses for metals to determine if physical or chemical interferences exist in the analyte determinations.

For the Subarea 8 North and 8 South soil data set, accuracy was evaluated by reviewing the %R values of initial and continuing calibration (percent difference or percent drift [%D] for organic analyses), internal standards, surrogate spikes (organic analyses only), MS/MSD, LCS/LCSD, inductively coupled plasma (ICP) interferences, and by performing serial dilution checks during metals analyses, in conjunction with method blank, calibration blank, equipment rinsate blank, and trip blank results. These QC results assist in identifying the type and magnitude of effects that may have contributed to system error introduced from field and/or laboratory procedures.

Qualifiers were applied to applicable sample results during the validation process based on laboratory accuracy results. Details of the validation and the number of analytes qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C. No qualifiers were applied to applicable sample results based on the accuracy results of the RL-LCS and RL-MS samples. These QC samples are intended to evaluate the effects of the method modifications on the RLs program wide. A statistically robust population of RL-LCS and RL-MS samples has not yet been achieved. When enough data has been collected, decisions regarding the accuracy and precision of these RLs will be addressed by all parties and possible changes to the RLs may occur.

The following Subarea 8 North individual analyte results were qualified as estimated "J/UJ" based on accuracy criteria:

- Some of the dioxin results, NDMA results, fluoride/nitrate results, metals, hexavalent chromium results, mercury results, alcohol and terphenyl results, TPH and glycol results, VOC results, SVOC results, SVOC SIM results and energetic results due to MSs
- Some of the metals, TPH and glycol results, PCB/PCT results, VOC results, SVOC results, SVOC SIM results and formaldehyde results due to LCSs
- Some of the NDMA results, alcohol and terphenyl results, PCB/PCT results, SVOC SIM results and formaldehyde results due to surrogates
- Some of the PCB/PCT results, VOC results, SVOC results, SVOC SIM results and energetic results due to calibrations
- Some of the metal analyte results due to serial dilutions

The following individual analyte results were rejected "R" based on accuracy criteria:

- Five SVOC results (benzidine) based on MSs

The following Subarea 8 South individual analyte results were qualified as estimated "J/UJ" based on accuracy criteria:

- Some of the fluoride/nitrate results, metal results, pesticide results, herbicide results, SVOC results and SVOC SIM results due to MSs
- Some of the metals, PCB/PCT results, pesticide results and SVOC results due to LCSs

- Some of the pesticide results, PCB/PCT results, SVOC SIM results due to surrogates
- Some of the metal analyte results due to serial dilutions

The following individual analyte results were rejected "R" based on accuracy criteria:

- Two pesticide results (endosulfan sulfate and endrin ketone) based on MSs and holding times
- Twenty-four herbicide results (two for dalapon; one for dicamba; and 21 for dinoseb) based on MSs and LCSs
- Five SVOC results (three for benzidine; one for 2,4-dinitrophenol; and one for benzoic acid) based on MSs

Sample preservation, handling, and holding times are additional measures of accuracy of the data. Holding times are defined as the amount of time that elapses between the collection of the sample from the field source to the beginning of the analysis. Preservation is defined as techniques used to maintain the target analytes at concentrations representative of the source sampled. Published holding times are viewed as valid as long as the associated preservation and container requirements have been met. All holding times, sample preservation and handling criteria were met except for those discussed in the DUAR and laboratory validation reports in Appendix C.

Sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions. Results that have been rejected are not usable.

4.7.3 Blank Contamination

Blanks are used to determine the level of laboratory and field contamination introduced into the samples, independent of the level of target analytes found in the sample source. Sources of sample contamination can include the containers and equipment used to collect the sample, preservatives added to the sample, other samples in transport coolers and laboratory sample storage refrigerators, standards and solutions used to calibrate instruments, glassware and reagents used to process samples, airborne contamination in the laboratory preparation area and the analytical instrument sample introduction equipment. Each analyte group has its own particular suite of common laboratory contaminants. Active measures must be performed to continually measure the ambient contamination level and steps taken to discover the source of the contamination to eliminate or minimize the levels. Random spot contamination can also occur from analytes that are not common laboratory problems but that can arise as a problem for a specific project or over a short period of time. Sample equipment decontamination practices are discussed in Section 2.4.4. Field blanks, equipment blanks, trip blanks and laboratory method blanks are analyzed to identify possible sources of contamination. The DUAR and laboratory validation reports in Appendix C discuss the results that were qualified based on field and laboratory blank contamination.

In summary, for Subarea 8 North samples, some dioxins, NDMA, metals, mercury, TPH and glycols, VOCs, SVOCs and SVOC SIM results were qualified as non-detect due to laboratory blank contamination criteria. Some results for metals, mercury and SVOC SIM analytes were also qualified based on field blank contamination. For Subarea 8 South samples, some dioxins, metals, mercury and SVOC SIM analytes were qualified as non-detect due to laboratory blank contamination criteria. The percentage of results qualified as non-detect based on laboratory blank contamination was less than 5 percent, as discussed in Appendix C, for all these analyses except for the following analytes:
51 percent of the dioxins for Subarea 8 North; 64 percent of the dioxins for Subarea 8 South; 9 percent

of the NDMA results for Subarea 8 North; and 15 percent of the mercury results for Subarea 8 South. These results were qualified as non-detect "U" due to laboratory blank contamination.

For the dioxins, estimated detection limits (EDLs) are calculated for each sample. The EDLs for this analysis are very low, reported in nanogram per kilogram (ng/kg) or parts per trillion, resulting in numerous results qualified as estimated "J" values because they are below the RL. Many of these estimated values have been subsequently qualified as nondetect "U" because the compound was detected in related laboratory blanks. The laboratory blank results correlate to the sample EDLs and low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks were well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

The other reported analytes that had blank qualifications greater than 5 percent do not indicate a laboratory blank contamination problem as the overall sample counts for those analytes were low. For example, there were only 95 NDMA samples analyzed for Subarea 8 North and out of those samples nine NDMA results were qualified due to blank contamination.

Tables 4-2 through 4-6 provide a summary of analytes observed in equipment and trip blank samples. Almost all equipment blank and trip blank detected concentrations of analytes were below the RLs. A couple of detected field blank analyte concentrations were above the RL (e.g., naphthalene; 0.22 µg/L versus 0.05 µg/L for the RL). The associated sample results were qualified accordingly during the validation process.

4.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

4.7.4.1 Representativeness

Representativeness is a qualitative term that expresses the degree to which the sample data accurately and precisely represent the environmental conditions corresponding to the location and depth interval of sample collection. Requirements and procedures for sample collection are designed to maximize sample representativeness.

Representativeness also can be monitored by reviewing field documentation and/or performing field audits. For this report, a detailed review was performed on the CoC forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM Smith 2011a) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

The most significant measure of representativeness is the accuracy of the sampling network and selection of appropriate locations and depths, etc. Field sampling accuracy was attained through adherence to the approved WP/FSAP for sample location and collection and by using approved standard operating procedures for field data collection. Therefore the data should represent, as near as possible, the actual field conditions at the time of sampling.

Representativeness has been achieved by the performed field work and laboratory analyses. The analytical data generated and that have not been rejected, are viewed to be a representative characterization of the project area.

4.7.4.2 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Strict adherence to standard sample collection procedures, analytical detection limits, reporting units and analytical methods assures that data from like samples and sample conditions are comparable. This comparability is independent of laboratory personnel, data reviewers, or sampling personnel. Comparability criteria are met for the project if, based on data review, the sample collection and analytical procedures are determined to have been followed, or defined to show that variations did not affect the values reported.

To ensure comparability of data generated for the site, standard sample collection procedures and DTSC-reviewed analytical methods were utilized by CDM Smith. The sample analyses were performed by LLI. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated using similar methods.

4.7.4.3 Sensitivity

Sensitivity is related to the ability to compare analytical results with project-specific levels of interest, such as risk-based screening levels or action levels. Analytical detection limits for the various sample analytes should be below the level of interest to allow an effective comparison.

Detection Limits

The MDL attempts to answer the question, "What is the lowest level of analyte in a sample that will result in a signal different than zero"? The study is based upon repetitive analysis of an interference-free sample spiked with a known amount of the target analyte. The MDL is a measure of the ability of the test procedure to generate a positive response for the target analyte in the absence of any other interferences from the sample.

The RL is generally defined as the lowest concentration at which an analyte can be detected in a sample and its concentration reported with a reasonable degree of accuracy and precision. For samples that do not pose a particular matrix problem, the RL is typically about three to five times higher than the MDL.

Laboratory results are reported according to rules that provide established certainty of detection and RLs. The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits.

If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

RLs for the modified methods identified in Table 2-3 are evaluated through the analysis of RL-LCS and RL-MS samples created by LLI. The evaluation of these QC samples is ongoing throughout all subareas and recommendations regarding program-wide sample qualification based on the RL-LCS and RL-MS QC results have not been finalized. Qualification of individual sample results for Subareas 8 North and 8 South, based on the current RL-LCS and RL-MS QC sample results, was not performed.

Qualifiers were applied to applicable sample results by the laboratory and identified during the validation process based on sample results being reported as detected below the RL/MDL. Details of the validation and the number of results qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C.

In summary, for all methods analyzed for Subarea 8 North, results for some of the analytes were qualified as estimated due to RL criteria except for VOC SIM results and energetic results. For all methods analyzed for Subarea 8 South, results for some of the analytes were qualified as estimated due to RL criteria except for perchlorate results.

In general, for the data validated in this report, RLs for the sample results were low enough to compare to the RLs stated in the WP/FSAP (CDM Smith 2011a). The RLs for this project are lower than "normal" environmental data analyses for some classes of compounds. Some analytical laboratory methods were modified in order to achieve the lowest practicable RLs in an attempt to comply with the AOC. All modified analyses are undergoing further studies evaluating the effect of the modifications on precision and accuracy. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of the herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for some of the analytes. Data are currently under further review and it is likely that reporting limits may be elevated for some analytes. These results are still considered usable for project decisions.

4.8 Review of Selected Validation Reports

CDM Smith performed a review of the validation reports identified in Table 4-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results were verified against the laboratory data packages and validation guidance documents were followed as required.

4.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM Smith 2011a) versus the actual number of samples collected during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see equation B). Acceptable data include both data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

Equation A.

$$\%\text{Completeness} = C \times \frac{100}{n}$$

Where:

C = actual number of samples collected
n = total number of samples planned

Equation B.

$$\%\text{Completeness} = V \times \frac{100}{n'}$$

Where:

V = number of measurements judged valid

n' = total number of measurements made

The overall completeness goal for this sampling event was 90 percent for all project data.

A total of 202 Subarea 8 North and 54 Subarea 8 South soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.7, 102 locations were to be sampled in Subarea 8 North and 24 locations in Subarea 8 South. Some locations required only a subsurface sample while other locations required both a surface and subsurface sample. The number of subsurface samples to be collected at each location is not pre-determined because the total depth of each boring varies depending on the local geology. Hence, the completeness calculation defined in Equation A above is more accurately reflected by identifying whether all the locations were sampled at versus the actual number of samples collected since that is not pre-determined. Of all the locations indicated for collection in Subareas 8 North and 8 South, only one location in Subarea 8 North was not collected due to archeology significance, as cited in Table 2-1 and stated in Section 2.7. The remaining deviations from the proposed sample collection for Subareas 8 North and 8 South were due to shallow refusal on bedrock. For all of these locations, a surface sample was successfully collected.

As discussed in Section 2.7, the sampling deviations do not impact completeness objectives for this sampling event. As the sampling program progresses, it may be determined during the Phase 3 Data Gap Investigation that Phase 1 locations not affected by archeological findings that were not sampled, or methods were inadvertently left off of the CoCs (pesticides and herbicides for the Subarea 8 North samples) may be sampled during Phase 3 sampling. Ninety-nine percent of the sample locations identified in the WP/FSAP Addendum were collected meeting the completeness goal for the number of locations sampled versus number of locations planned to be sampled.

The completeness goal achieved for acceptable data was 99.9 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 8 North and 99.6 percent for Subarea 8 South samples analyzed. Tables 4-7 and 4-8, show a summary of all results that were estimated or rejected.

The following Subarea 8 North individual analyte results were rejected per analyses:

- Method 8270C
  - 5 individual SVOC analyte results out of 9250 results (0.01 percent)

The following Subarea 8 South individual analyte results were rejected per analyses:

- Method 8081A
  - 2 individual pesticide analyte results out of 441 results (0.45 percent)
- Method 8151A
  - 24 individual herbicide analyte results out of 210 results (11 percent)
- Method 8270C
  - 5 individual SVOC analyte results out of 2413 results (0.21 percent)

Table 4-7 Summary of Data Completeness Following Data Validation – Subarea 8 North

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	242	1124		1864	34	3264	100
NDMA	24	31		35	5	95	100
Formaldehyde	2	8		82	3	95	100
Cyanide		6		89		95	100
Fluoride, Nitrate	111	162		5	9	287	100
Hexavalent Chromium	7	100		85		192	100
Mercury	4	85		100	3	192	100
Metals – 6010B	1922	511		254	1	2688	100
Metals – 6020	889	2120		28	35	3072	100
Perchlorate-314	2	1		189		192	100
Perchlorate-6850	2	3		16		21	100
Alcohols, terphenyls		2		557	11	570	100
Energetics				1877	13	1890	100
Total Petroleum Hydrocarbons, glycols	183	68		787	25	1063	100
PCBs/PCTs	91	119		2057	37	2304	100
Pesticides							
Semivolatiles	13	134	5	8970	128	9250	99.95
Semivolatiles SIM	273	506		3710	88	4577	100
Volatiles	60	49		5703	17	5829	100
Volatiles SIM				87		87	100
Completeness Total for All Subarea 8 North Samples Collected and Judged Valid							**99.99**

Table 4-8 Summary of Data Completeness Following Data Validation – Subarea 8 South

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	27	198		630	12	867	100
Fluoride, Nitrate	11	20		9	10	50	100
Hexavalent Chromium	6	32		13		51	100
Mercury		21		30		51	100
Metals – 6010B	528	134		52		714	100
Metals – 6020	183	579		29	25	816	100
Perchlorate-314				51		51	100
Perchlorate-6850				1		1	100
PCBs/PCTs	18	23		501	70	612	100
Pesticides	31	39	2	227	142	441	99.55
Herbicides	6	13	24	141	26	210	89
Semivolatiles	4	14	5	2355	35	2413	99.8
Semivolatiles SIM	53	101		1082	23	1259	100
Completeness Total for All Subarea 8 South Samples Collected and Judged Valid							**99.6**

The completeness goals for both the number of samples collected and the number of measurements judged to be valid were met.

Sampling deviations from procedures described in the WP/FSAP (CDM Smith 2011a) are discussed in Section 2.7 of this report. Deviations did not impact DQOs for this sampling event. The data reported and not rejected, are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM Smith 2011a) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated on which to base project decisions.

4.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

Over 99 percent of the data validated for Subareas 8 North and 8 South, and reported in this TM, are suitable for their intended use for site characterization. Sample results that were rejected are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. The RLs reported generally met the expected limits proposed by the analytical laboratory in their contract agreement with CDM Smith.

Sample results that were qualified as estimated are usable for project decisions. Numerous dioxin results were qualified as estimated and/or non-detect due to the low detection limits. This data is considered usable.

Field duplicate precision also met criteria a majority of the time. RPDs were outside criteria predominantly when the sample results were close to the RL and/or below the project required action limits. Decisions based on results close to the RL should be made with a degree of caution. The achievement of the completeness goals for number of samples collected, and the number of sample results acceptable for use provides sufficient quality data to support project decisions.

Section 5
References

CDM Smith (formerly CDM). 2011a. *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Soil Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California*. February 16.

CDM Smith (formerly CDM). 2011b. *Revised Addendum No. 3 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subarea 8N Soil Sampling.* June 16.

CDM Smith (formerly CDM). 2011c. *Addendum No. 7 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7 and 8 South Soil Sampling*. September 2011.

CH2M Hill. 2007. *Group 8 – Western Portion of Area IV, RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California.* September.

Department of Toxic Substance and Control. 2010. Administrative Order on Consent for RA, Docket Number HAS-CO 10/11-037. December 6.

EPA. 2008. EPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*.

EPA. 2005. *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review*.

EPA. 2004. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

HGL. 2010. *Field Sampling Plan for Soil Sampling, Area IV Radiological Study, Santa Susana Field Laboratory, Ventura County, California*. October 4.

HGL. 2011. *Subarea 8 North FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study.* March 31.

MEC^X. 2009. *Quality Assurance Project Plan, Santa Susana Field Laboratory, RCRA Facility Investigation, Surficial Media Operable Unit*. March.

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 8 North Sample Locations

0 50 100 200 300 Feet

Santa Susana Field Laboratory
Ventura County, California
Exhibit 1

CDM Smith

Z:\gis\Public\Santa_Susana\MXD\AreaIV\SSFL_8N_Sampling_Locations_18x24.mxd 2/29/2012

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 8 South Sample Locations

0 50 100 200 300 Feet

Santa Susana Field Laboratory
Ventura County, California
Exhibit 1

CDM Smith

Z:\gis\Public\Santa_Susana\MXD\AreaIV\SSFL_8S_Sampling_Locations_18x24.mxd 2/29/2012

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	14797-55-8	Nitrate [as N]	
300	14797-55-8	Nitrate	
300	16984-48-8	Fluoride	
9012B	57-12-5	Cyanide	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
160.3M	MOIST	Percent Moisture	
9045M	pH	pH	
8315M	60-34-4	Methylhydrazine	
8315M	57-14-7	1,1-Dimethylhydrazine	
8015B	64-17-5	Ethanol	
8015B	67-56-1	Methanol	
8015B	67-63-0	2-Propanol	
8015M	107-21-1	Ethylene Glycol	
8015M	111-46-6	Diethylene Glycol	
8015M	57-55-6	Propylene glycol	
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	
8315A	50-00-0	Formaldehyde	
8330A	606-20-2	2,6-Dinitrotoluene	
8330A	118-96-7	2,4,6-Trinitrotoluene	
8330A	121-82-4	1,3,5-Trinitroperhydro-1,3,5-triazine	RDX
8330A	19406-51-0	4-Amino-2,6-Dinitrotoluene	
8330A	2691-41-0	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	HMX
8330A	35572-78-2	2-Amino-4,6-Dinitrotoluene	
8330A	479-45-8	2,4,6-Trinitrophenylmethylnitramin	Tetryl
8330A	55-63-0	Nitroglycerin	
8330A	59229-75-3	2,6-Diamino-4-nitrotoluene	
8330A	6629-29-4	2,4-Diamino-6-nitrotoluene	
8330A	78-11-5	Pentaerythritol Tetranitrate	

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	

8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	

8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015M	GROC5C12	Gasoline Range Organices (C5-C12)	GRO (C5-C12)
8015M	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015M	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015M	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015M	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	
8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	

8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

SSFL Main Qualification Definitions

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R – The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

UJ – The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

SSFL Specific Qualification Definitions

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD, r, r2 or %D were noncompliant	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits
B	Presumed contamination from preparation (method blank)	Presumed contamination from preparation (method) blank or calibration blank
L	Laboratory Control Sample/Laboratory Control Sample Duplicate %R was not within control limits	Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits
Q	MS/MSD recovery was poor; RPD	MS/MSD recovery was poor.
E	LCS/LCSD RPD	MS/MSD or Duplicate RPD or difference was high.
I	Internal standard performance was unsatisfactory	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits
M	Instrument Performance Check (BFB or DFTPP) was noncompliant	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor	Post Digestion Spike recovery was not within control limits
K	EMPC	Not applicable
Z	Compounds reported below the RL	Analytes reported below the RL and above the MDL
***#**	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.

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Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	14797-55-8	Nitrate [as N]	
300	14797-55-8	Nitrate	
300	16984-48-8	Fluoride	
9012B	57-12-5	Cyanide	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
160.3M	MOIST	Percent Moisture	
9045M	pH	pH	
8315M	60-34-4	Methylhydrazine	
8315M	57-14-7	1,1-Dimethylhydrazine	
8015B	64-17-5	Ethanol	
8015B	67-56-1	Methanol	
8015B	67-63-0	2-Propanol	
8015M	107-21-1	Ethylene Glycol	
8015M	111-46-6	Diethylene Glycol	
8015M	57-55-6	Propylene glycol	
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	
8315A	50-00-0	Formaldehyde	
8330A	606-20-2	2,6-Dinitrotoluene	
8330A	118-96-7	2,4,6-Trinitrotoluene	
8330A	121-82-4	1,3,5-Trinitroperhydro-1,3,5-triazine	RDX
8330A	19406-51-0	4-Amino-2,6-Dinitrotoluene	
8330A	2691-41-0	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	HMX
8330A	35572-78-2	2-Amino-4,6-Dinitrotoluene	
8330A	479-45-8	2,4,6-Trinitrophenylmethylnitramin	Tetryl
8330A	55-63-0	Nitroglycerin	
8330A	59229-75-3	2,6-Diamino-4-nitrotoluene	
8330A	6629-29-4	2,4-Diamino-6-nitrotoluene	
8330A	78-11-5	Pentaerythritol Tetranitrate	

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	

8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	

8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015M	GROC5C12	Gasoline Range Organices (C5-C12)	GRO (C5-C12)
8015M	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015M	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015M	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015M	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	
8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	

8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0	SL-003-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DE124	DE165	DE165	DE124	DE166	DE166	DE124
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.3 J Q	3.7	5.5	1.7 J Q	4.6 J Q	5.3 J Q	1.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	25600	34300	21400	27200	28300	26000	26400
Iron	mg/kg	29800	35800	22200	31000	35600	29700	29900
Lead	mg/kg	33.6 J Q	12.8 J E	5.81 J E	48.7 J Q	10.2 J Q, A	11.5 J Q, A	31.7 J Q
Lithium	mg/kg	24.7	27.6	23.5	26.4	26	23.9	27.2
Magnesium	mg/kg	7810	8040	3730	7750	7900	6450	7610
Manganese	mg/kg	415	593	168	437	430	680	452
Mercury	mg/kg	0.121 U	0.0106 J Z	0.112 U	0.121 U	0.118 U	0.114 U	0.124 U
Molybdenum	mg/kg	0.969	0.416 J E	0.218 J E	0.495	0.327	0.29	0.345
Nickel	mg/kg	25.9 J E, Q	22.8	11	21.9 J E, Q	23.0 J Q	24.6 J Q	21.3 J E, Q
Potassium	mg/kg	6590 J Q	3150	2140	5810 J Q	3770 J Q	3010 J Q	5140 J Q
Silver	mg/kg	0.0297 J Z	0.0563 J Z	0.0205 J Z	0.0326 J Z	0.0264 J Z	0.0453 J Z	0.0491 J Z
Sodium	mg/kg	99.4 J Z	170	115	92.6 J Z	119	151	106 J Z
Strontium	mg/kg	68.6	50.1	23.1	53.9	51.1	55.4	70.8
Thallium	mg/kg	0.332	0.352	0.285	0.369	0.334	0.331	0.313
Tin	mg/kg	12.2 U B, Z	11.5 U B	11.0 U B	12.0 U B, Z	11.9 U B	11.7 U B	12.3 U B, Z
Titanium	mg/kg	1390	1280	1010	1210	1460	1240	1510
Antimony	mg/kg	0.409 J Q	0.270 J Q	0.114 J Q, Z	0.420 J Q	0.140 J Q, Z	0.139 J Q, Z	0.350 J Q
Arsenic	mg/kg	13.1 J Q, E	8.20 J E	5.41 J E	7.28 J Q, E	6.98 J Q	6.73 J Q	6.89 J Q, E
Beryllium	mg/kg	0.948	0.821	0.562	0.858	0.842	0.872	0.77
Barium	mg/kg	117	143	66.9	129	113 J A	117 J A	112
Boron	mg/kg	18.4	18.4	10	15.9	11.3	6.6	16.8
Cadmium	mg/kg	0.471 J E, Q	0.247	0.121	0.414 J E, Q	0.229	0.389	0.318 J E, Q
Chromium	mg/kg	38.1 J Q	32.4 J *#	17.4 J *#	31.7 J Q	31.8 J Q, A	33.3 J Q, A	29.4 J Q
Cobalt	mg/kg	12.6 J E	10.9	5.4	10.9 J E	10.6	12.9	10.6 J E
Copper	mg/kg	19.3 J *#	17.1	8.04	20.2 J *#	16.9	17	18.3 J *#
Vanadium	mg/kg	79.4 J Q	56.3 J *#	34.7 J *#	56.1 J Q	63.9 J A	65.9 J A	53.1 J Q
Zinc	mg/kg	86.1 J E	67.1	49.3	78.2 J E	70.3	70.6	72.5 J E
Zirconium	mg/kg	2.53 J Z	4.28 J Z	1.88 J Z	3.26 J Z	4.41 J Z	3.57 J Z	3.36 J Z
Calcium	mg/kg	37100	19600	7990	28100	14300	62400	37900
Phosphorus	mg/kg	698 J E	138	96	536 J E	299	217	559 J E
Selenium	mg/kg	0.437 J Z	0.112 J Z	0.437 U	0.227 J Z	0.147 J Z	0.0898 J Z	0.225 J Z
Chromium VI	mg/kg	1.3 U	0.39 J Z	0.28 J Z	0.54 J Z	0.49 J Z	1.2 U	0.57 J Z
Perchlorate (314.0)	ug/kg	37.8 U	35.4 U	33.7 U	37.2 U	35.8 U	35.4 U	37.3 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	6.2 U	--	--	--
Percent Moisture	%	20.6	15.3	11.1	19.3	16.3	15.2	19.6
pH	pH unit	8.08	8.01	8.27	8.35	8.19	8.24	7.88

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0	SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0
Sample Date		05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011
SDG		DE167	DE167	DE124	DE134	DE134	DE124	DE134
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.4	6.1	1.7 J Q	8.6 J Q	3.5 J Q	1.1 UJ Q	5.1 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	34300	29500	23800	33000	19900	19700	27300
Iron	mg/kg	38800	29700	27300	32800	19900	31200	29500
Lead	mg/kg	10.6 J Q	9.79 J Q	121 J Q	9.80 J Q	8.44 J Q	9920 J Q	54.0 J Q
Lithium	mg/kg	28.8	25.3	24.6	28.8	20.4	20.1	24.7
Magnesium	mg/kg	8290	8100	9880	7430	4580	7000	7030
Manganese	mg/kg	442 J *#	401 J *#	383	411	121	306	377
Mercury	mg/kg	0.112 UJ E	0.120 UJ E	0.112 U	0.113 U	0.0071 J Z	0.101 U	0.0109 J Z
Molybdenum	mg/kg	0.379	0.365	0.339	0.413	0.113	0.759	0.286
Nickel	mg/kg	25.4	23.5	18.2 J E, Q	24.7	13.9	13.2 J E, Q	20.3
Potassium	mg/kg	4240	4140	4740 J Q	3930 J Q	1630 J Q	3140 J Q	2720 J Q
Silver	mg/kg	0.0394 J Z	0.0602 J Z	0.0343 J Z	0.0295 J Z	0.0221 J Z	0.515	0.0528 J Z
Sodium	mg/kg	120	189	107 J Z	149	106 J Z	168	155
Strontium	mg/kg	48.2	125	87.9	39.1	61.7	52	38.6
Thallium	mg/kg	0.385	0.365	0.302	0.358	0.241	0.177	0.247
Tin	mg/kg	11.7 U B	12.4 U B	11.1 U B, Z	11.7 U B	11.1 U B	10.3 U B, Z	11.5 U B
Titanium	mg/kg	1070	1330	1210	1360	941	1000	1160
Antimony	mg/kg	0.116 J Q, Z	0.0916 J Q, Z	0.957 J Q	0.230 UJ B, Q	0.215 UJ Q	87.0 J Q	0.582 J Q
Arsenic	mg/kg	6.88	6.36	7.59 J Q, E	8.08	4.92	78.4 J Q, E	7.14
Beryllium	mg/kg	1.03 J Q	0.842 J Q	0.684	0.953	0.816	0.483	0.795
Barium	mg/kg	139	109	103	122	80	153	112
Boron	mg/kg	5.87 U	6.18 U	16	8.5	3.68 J Z	12.3	7.41
Cadmium	mg/kg	0.24	0.393	0.304 J E, Q	0.33	0.166	0.905 J E, Q	0.497
Chromium	mg/kg	36.1	33.7	28.4 J Q	49.0 J Q, A	23.9 J Q, A	20.0 J Q	36.4 J Q, A
Cobalt	mg/kg	11.2	10.5	9.94 J E	11.3	6.86	11.1 J E	10.8
Copper	mg/kg	17.6	17.4	16.5 J *#	18.9 J A	7.95 J A	13.7 J *#	16.0 J A
Vanadium	mg/kg	66.4	64.7	49.1 J Q	69.5 J A	37.5 J A	43.2 J Q	56.7 J A
Zinc	mg/kg	76.9	69.1	66.6 J E	73.6	47.8	68.2 J E	53.5
Zirconium	mg/kg	2.43 J Z	4.26 J Z	3.10 J Z	2.97 J Z	1.87 J Z	0.929 J Z	2.60 J Z
Calcium	mg/kg	9540	76500	50200	10900	74800	29700	28200
Phosphorus	mg/kg	313	512	639 J E	295	199	3620 J E	334
Selenium	mg/kg	0.140 J Z	0.137 J Z	0.196 J Z	0.0723 J Z	0.430 U	0.226 J Z	0.0886 J Z
Chromium VI	mg/kg	0.31 J Z	0.40 J Z	1.2 U	0.33 J Q, Z	1.1 U	1.1 U	0.32 J Q, Z
Perchlorate (314.0)	ug/kg	35.5 U	37.1 U	34.6 U	35.5 U	33.9 U	31.7 U	34.7 U
Perchlorate (6850)	ug/kg	--	6.2 U	--	--	--	--	--
Percent Moisture	%	15.6	19.1	13.4	15.6	11.4	5.3	13.6
pH	pH unit	8.19	8.38	8.01	8.26	8.33	7.97	8.16

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5	SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0
Sample Date		04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE134	DE124	DE134	DE134	DE124	DE135	DE135
Start Depth		8	0	4	8	0	4	9
End Depth		9	0.5	5	9	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	5.0 J Q	3.1 J Q	6.7 J Q	9.1 J Q	1.6 J Q	4.9 J Q	4.1 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	16100	28100	19600	23600	24600	27300	27900
Iron	mg/kg	17300	31700	19500	24200	39800	28400	29800
Lead	mg/kg	115 J Q	12.8 J Q	9.99 J Q	7.12 J Q	15.7 J Q	7.94 J Q, E	7.84 J Q, E
Lithium	mg/kg	21.7	24	21.7	26.7	23.4	24.5	25.8
Magnesium	mg/kg	3780	7000	5510	4800	7370	6210	6720
Manganese	mg/kg	268	470	288	317	448	362	505
Mercury	mg/kg	0.0112 J Z	0.112 U	0.0087 J Z	0.112 U	0.118 U	0.108 U B	0.113 U B
Molybdenum	mg/kg	0.266	0.37	0.249	0.523	0.471	0.385 J E	0.412 J E
Nickel	mg/kg	9.65	20.7 J E, Q	15.7	23.8	20.8 J E, Q	18.4 J Q, E, *#	21.1 J Q, E, *#
Potassium	mg/kg	1320 J Q	3040 J Q	1920 J Q	2470 J Q	6380 J Q	2920 J Q	2760 J Q
Silver	mg/kg	0.0420 J Z	0.0193 J Z	0.0343 J Z	0.0438 J Z	0.0394 J Z	0.0333 J Q, E, Z	0.0318 J Q, E, Z
Sodium	mg/kg	123	85.8 J Z	135	161	88.0 J Z	91.2 J Z	135
Strontium	mg/kg	67.5	45.5	120	41.1	41	33.6	31.1
Thallium	mg/kg	0.179	0.334	0.226	0.346	0.326	0.302	0.317
Tin	mg/kg	11.0 U B	11.1 U B, Z	11.9 U B	11.8 U B	11.8 U B, Z	11.3 U B	11.4 U B
Titanium	mg/kg	794	1440	904	1150	1410	1280	1330
Antimony	mg/kg	1.90 J Q	0.368 J Q	0.237 UJ B, Q	0.236 UJ B, Q	0.186 J Q, Z	0.226 UJ Q, E	0.229 UJ Q, E
Arsenic	mg/kg	7.09	7.59 J Q, E	5.77	6.31	6.53 J Q, E	6.81 J Q, E	6.72 J Q, E
Beryllium	mg/kg	0.695	0.841	0.756	0.861	0.781	0.800 J E	0.821 J E
Barium	mg/kg	74	133	86.7	100	107	107 J E, *#	93.2 J E, *#
Boron	mg/kg	2.35 J Z	14.7	5.77 J Z	4.57 J Z	19.2	14	13.9
Cadmium	mg/kg	0.186	0.231 J E, Q	0.393	0.292	0.447 J E, Q	0.210 J Q, E	0.259 J Q, E
Chromium	mg/kg	19.2 J Q, A	32.6 J Q	30.8 J Q, A	36.3 J Q, A	29.5 J Q	28.1 J Q, *#	27.4 J Q, *#
Cobalt	mg/kg	6.2	10.7 J E	7.54	8.12	10.2 J E	10.4 J Q, E, *#	10.4 J Q, E, *#
Copper	mg/kg	7.79 J A	17.3 J *#	13.6 J A	13.7 J A	19.4 J *#	14.4 J Q, E, *#	14.4 J Q, E, *#
Vanadium	mg/kg	36.9 J A	56.2 J Q	49.3 J A	49.2 J A	52.9 J Q	51.3 J Q, *#	49.4 J Q, *#
Zinc	mg/kg	35.3	65.0 J E	48.8	64.8	102 J E	64.4 J E, *#	61.7 J E, *#
Zirconium	mg/kg	1.25 J Z	3.69 J Z	2.47 J Z	1.88 J Z	2.67 J Z	3.10 J Z	3.35 J Z
Calcium	mg/kg	98600	18200	146000	36300	19000	20100	14100
Phosphorus	mg/kg	307	410 J E	345	245	664 J E	309	296
Selenium	mg/kg	0.0844 J Z	0.0851 J Z	0.0818 J Z	0.0801 J Z	0.194 J Z	0.0767 J Z	0.0562 J Z
Chromium VI	mg/kg	1.1 U	0.87 J Z	0.39 J Q, Z	1.2 U	1.2 U	0.47 J Z	1.2 U
Perchlorate (314.0)	ug/kg	33.6 U	34.5 U	36.2 U	35.3 U	36.5 U	34.9 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.6	13.1	17.1	15.1	17.9	14	13.4
pH	pH unit	8.83	8.09	8.54	8.13	7.88	8	8.19

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5	SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE124	DE166	DE166	DE124	DE124	DE135	DE135
Start Depth		0	4	9	0	0	4	9
End Depth		0.5	5	10	0.5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	2.4	1.2 J Z	1.4 J Z
Fluoride	mg/kg	2.4 J Q	3.8 J Q	5.2 J Q	2.7 J Q	2.1 J Q	8.1 J Q	8.5 J Q
Cyanide	mg/kg	--	--	--	--	0.59 U	0.57 U	0.55 U
Aluminum	mg/kg	20700	24400	20100	28000	24900	27600	26100
Iron	mg/kg	25300	30700	28300	30700	30000	30200	29800
Lead	mg/kg	12.6 J Q	8.93 J Q, A	6.58 J Q, A	11.5 J Q	11.2 J Q	9.40 J Q, E	8.42 J Q, E
Lithium	mg/kg	23.9	23.8	21.1	24.1	23.1	23.1	20.8
Magnesium	mg/kg	5850	7010	5960	6870	6600	6490	6360
Manganese	mg/kg	348	510	384	436	421	339	424
Mercury	mg/kg	0.0052 J Z	0.114 U	0.0059 J Z	0.0293 J Z	0.0099 J Z	0.111 U B	0.112 U B
Molybdenum	mg/kg	0.442	0.325	0.268	0.316	0.358	0.344 J E	0.346 J E
Nickel	mg/kg	16.4 J E, Q	19.2 J Q	17.2 J Q	23.4 J E, Q	18.8 J E, Q	20.7 J Q, E, *#	23.5 J Q, E, *#
Potassium	mg/kg	3900 J Q	4750 J Q	2830 J Q	3850 J Q	4690 J Q	2860 J Q	3080 J Q
Silver	mg/kg	0.0385 J Z	0.0372 J Z	0.0394 J Z	0.0497 J Z	0.0339 J Z	0.0304 J Q, E, Z	0.0943 J Q, E, Z
Sodium	mg/kg	91.3 J Z	241	168	257	83.8 J Z	230	169
Strontium	mg/kg	27.2	34.6	28.4	48.7	32.3	34.5	32.7
Thallium	mg/kg	0.277	0.269	0.255	0.363	0.319	0.338	0.341
Tin	mg/kg	10.6 U B, Z	11.4 U B	11.3 U B	11.8 U B, Z	11.6 U B, Z	11.4 U B	11.7 U B
Titanium	mg/kg	1320	1330	1280	1340	1360	1230	1390
Antimony	mg/kg	0.110 J Q, Z	0.128 J Q, Z	0.0814 J Q, Z	0.140 J Q, Z	0.117 J Q, Z	0.0918 J Q, E, Z	0.0809 J Q, E, Z
Arsenic	mg/kg	5.69 J Q, E	6.32 J Q	5.39 J Q	7.00 J Q, E	6.62 J Q, E	7.35 J Q, E	7.63 J Q, E
Beryllium	mg/kg	0.621	0.729	0.661	0.937	0.75	0.879 J E	0.940 J E
Barium	mg/kg	89.1	100 J A	86.3 J A	137	118	113 J E, *#	146 J E, *#
Boron	mg/kg	12.9	9.28	5.46 J Z	17.5	17.1	13.1	13.5
Cadmium	mg/kg	0.226 J E, Q	0.265	0.159	0.406 J E, Q	0.248 J E, Q	0.196 J Q, E	0.212 J Q, E
Chromium	mg/kg	23.3 J Q	29.8 J Q, A	25.5 J Q, A	31.7 J Q	27.8 J Q	31.9 J Q, *#	29.8 J Q, *#
Cobalt	mg/kg	8.43 J E	8.57	7.63	12.2 J E	9.96 J E	11.9 J Q, E, *#	10.9 J Q, E, *#
Copper	mg/kg	13.3 J *#	15.1	12.8	18.4 J *#	18.2 J *#	15.7 J Q, E, *#	17.4 J Q, E, *#
Vanadium	mg/kg	41.3 J Q	56.6 J A	49.5 J A	55.2 J Q	49.2 J Q	57.0 J Q, *#	54.3 J Q, *#
Zinc	mg/kg	100 J E	75	59.3	240 J E	94.3 J E	65.6 J E, *#	76.2 J E, *#
Zirconium	mg/kg	1.91 J Z	3.48 J Z	2.78 J Z	3.49 J Z	3.39 J Z	2.72 J Z	3.23 J Z
Calcium	mg/kg	16500	14000	10600	29300	12200	15400	13900
Phosphorus	mg/kg	441 J E	446	343	306 J E	461 J E	295	405
Selenium	mg/kg	0.0905 J Z	0.125 J Z	0.0529 J Z	0.0965 J Z	0.138 J Z	0.0661 J Z	0.0669 J Z
Chromium VI	mg/kg	0.80 J Z	0.55 J Z	1.2 U	1.2 U	0.46 J Z	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	32.9 U	35.7 U	34.6 U	35.6 U	35.5 U	35.1 U	35.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	8.8	15.9	13.2	15.8	15.6	14.6	15.5
pH	pH unit	8.04	8.48	8.49	8.47	8.18	8.13	8.07

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0	SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/12/2011	05/02/2011	04/11/2011	04/29/2011
SDG		DE124	DE135	DE135	DE125	DE141	DE124	DE140
Start Depth		0	4	9	0	4	0	2
End Depth		0.5	5	10	0.5	5	0.5	3
Chemical Name	Unit							
Nitrate	mg/kg	2.3	1.5 J Z	1.1 J Z	3.5	2	--	--
Fluoride	mg/kg	2.9 J Q	11.1 J Q	6.4 J Q	2.7 J Q	4.9	1.5 J Q	2.4
Cyanide	mg/kg	0.58 U	0.57 U	0.57 U	0.56 U	0.59 U	--	--
Aluminum	mg/kg	26300	32200	27300	24000	30700	19000	18100
Iron	mg/kg	31400	31500	29600	26600	32500	24000	23900
Lead	mg/kg	12.0 J Q	11.1 J Q, E	9.97 J Q, E	11.7 J *#	10.0 J Q, A	12.3 J Q	7.62 J A
Lithium	mg/kg	23.9	25.9	21.8	22.1	23.8	23.4	23.3
Magnesium	mg/kg	6680	6200	6000	6690	6210	5320	5440
Manganese	mg/kg	450	423	415	426 J *#	490 J E	322	379
Mercury	mg/kg	0.112 J Z	0.112 U B	0.113 U B	0.0249 J Z	0.117 U	0.0037 J FD, Z	0.113 U
Molybdenum	mg/kg	0.501	0.550 J E	0.352 J E	0.5	0.544 J E	0.468	0.393
Nickel	mg/kg	19.1 J E, Q	25.7 J Q, E, *#	24.9 J Q, E, *#	16.6 J *#	21.7 J Q, A	28.6 J E, Q	16.4 J A
Potassium	mg/kg	4760 J Q	3190 J Q	2300 J Q	5480	3700	3140 J Q	3040
Silver	mg/kg	0.0530 J Z	0.0636 J Q, E, Z	0.0551 J Q, E, Z	0.0554 J Z	0.0809 J Z	0.0679 J Z	0.0412 J Z
Sodium	mg/kg	100 J Z	277	262	98.9 J Z	201	90.9 J Z	131
Strontium	mg/kg	43.1	32.5	31.4	42.9 J *#	29.6	30.4	27.9
Thallium	mg/kg	0.299	0.382	0.307	0.324	0.315	0.274	0.287
Tin	mg/kg	11.6 U B, Z	11.6 U B	11.7 U B	11.1 U B	11.6 U B	11.5 U B, Z	11.4 U B
Titanium	mg/kg	1380	1390	1280	1120	1280	1340	1280
Antimony	mg/kg	0.157 J Q, Z	0.230 UJ Q, E	0.234 UJ Q, E	0.187 J Q, E, Z	0.236 J Q, Z	0.130 J Q, Z	0.195 J Q, Z
Arsenic	mg/kg	6.92 J Q, E	8.90 J Q, E	8.06 J Q, E	6.23 J Q	7.00 J Q	5.33 J Q, E	5.69
Beryllium	mg/kg	0.77	1.07 J E	0.964 J E	0.762	0.997 J Q, E	0.64	0.633 J Q
Barium	mg/kg	134	169 J E, *#	125 J E, *#	116	149 J E, A	95.5	83.5 J A
Boron	mg/kg	17.7	13.6	12.4	16.1	2.89 J Z	12	3.02 J Z
Cadmium	mg/kg	0.343 J E, Q	0.224 J Q, E	0.152 J Q, E	0.327	0.117 J E, Z	0.854 J E, Q	0.284
Chromium	mg/kg	28.7 J Q	32.8 J Q, *#	32.3 J Q, *#	30.4 J *#	31.7 J Q, A	27.8 J Q	23.2 J A
Cobalt	mg/kg	10.1 J E	14.7 J Q, E, *#	13.0 J Q, E, *#	9.94	9.63 J E, A	11.4 J E	8.54 J A
Copper	mg/kg	18.3 J *#	14.5 J Q, E, *#	15.9 J Q, E, *#	14.7 J *#	16.3 J Q, A	15.0 J *#	12.5 J A
Vanadium	mg/kg	50.6 J Q	62.0 J Q, *#	56.8 J Q, *#	52.7 J *#	54.5 J E, A	41.7 J Q	43.5 J A
Zinc	mg/kg	82.0 J E	74.6 J E, *#	69.2 J E, *#	77.9 J *#	64.4 J E	260 J E	198 J A
Zirconium	mg/kg	3.21 J Z	2.78 J Z	2.90 J Z	2.73 J Z	6.25	1.85 J Z	4.32 J Z
Calcium	mg/kg	17600	13400	14300	19100	4650 J A	16400	13500 J E
Phosphorus	mg/kg	574 J E	218	207	465	175	533 J E	454
Selenium	mg/kg	0.191 J Z	0.0853 J Z	0.0713 J Z	0.229 J Z	0.474 U B	0.142 J Z	0.0867 J Q, Z
Chromium VI	mg/kg	0.50 J Z	1.2 U	1.2 U	1.1 U	1.2 U	0.94 J Z	0.32 J Z
Perchlorate (314.0)	ug/kg	35.4 U	35.5 U	35.2 U	34.0 U	35.5 U	34.8 U	34.1 U
Perchlorate (6850)	ug/kg	3.2 J Z	--	--	--	--	--	--
Percent Moisture	%	15.3	15.5	14.7	11.8	15.6	13.9	12
pH	pH unit	8.07	8.23	8.02	7.9	7.22	8.01	8.14

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5	SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	04/11/2011
SDG		DE124	DE140	DE125	DE142	DE125	DE142	DE124
Start Depth		0	4	0	4	0	3	0
End Depth		0.5	5	0.5	5	0.5	4	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.3 J Q	9.9	3.0 J Q	5.7 J Q	2.9 J Q	6.4 J Q	4.3 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	17700	16200	24100	25400	20100	19100	23900
Iron	mg/kg	23100	22800	26600	31700	22600	23000	26900
Lead	mg/kg	5.91 J Q	5.08 J A	11.1 J *#	8.10 J Q, A	13.1 J *#	4.97 J Q, A	14.1 J Q
Lithium	mg/kg	24	20.3	20.9	23.9	18	19.9	22.9
Magnesium	mg/kg	5590	5480	6690	6900	5120	4990	5600
Manganese	mg/kg	330	201	485 J *#	489 J E	399 J *#	199 J E	375
Mercury	mg/kg	0.114 U	0.112 U	0.0250 J Z	0.116 U	0.125	0.112 U	0.0241 J Z
Molybdenum	mg/kg	0.241	0.206	0.59	0.293 J E	0.508	0.347 J E	0.331
Nickel	mg/kg	14.0 J E, Q	15.3 J A	16.5 J *#	21.2 J Q, A	15.1 J *#	13.8 J Q, A	18.2 J E, Q
Potassium	mg/kg	2130 J Q	1950	5390	1790	4350	1580	2980 J Q
Silver	mg/kg	0.0284 J Z	0.0247 J Z	0.0593 J Z	0.0576 J Z	0.0593 J Z	0.0368 J Z	0.0435 J Z
Sodium	mg/kg	91.1 J Z	493	102 J Z	466	100 J Z	683	102 J Z
Strontium	mg/kg	39.8	18.9	37.6 J *#	26.7	26.6 J *#	16.9	26.6
Thallium	mg/kg	0.228	0.22	0.33	0.269	0.295	0.263	0.292
Tin	mg/kg	11.5 U B, Z	11.2 U B	11.4 U B	11.5 U B	11.0 U B	11.2 U B	10.7 U B, Z
Titanium	mg/kg	1300	1270	1170	1270	1140	1180	1280
Antimony	mg/kg	0.0786 J Q, Z	0.100 J Q, Z	0.182 J Q, E, Z	0.200 J Q, Z	0.0815 J Q, E, Z	0.256 J Q	0.211 J Q, Z
Arsenic	mg/kg	4.70 J Q, E	5.45	6.88 J Q	6.85 J Q	5.11 J Q	5.38 J Q	6.46 J Q, E
Beryllium	mg/kg	0.545	0.517 J Q	0.764	0.830 J Q, E	0.694	0.654 J Q, E	0.744
Barium	mg/kg	78.2	60.9 J A	123	133 J E, A	109	87.8 J E, A	119
Boron	mg/kg	9.93	1.60 J Z	17.2	5.75 U	13.4	5.62 U	12.2
Cadmium	mg/kg	0.168 J E, Q	0.0862 J Z	0.367	0.107 J E, Z	0.342	0.115 UJ E	0.232 J E, Q
Chromium	mg/kg	20.1 J Q	20.7 J A	29.2 J *#	28.2 J Q, A	26.5 J *#	24.8 J Q, A	25.2 J Q
Cobalt	mg/kg	6.37 J E	5.78 J A	10.7	8.97 J E, A	8.89	5.99 J E, A	9.94 J E
Copper	mg/kg	11.6 J *#	9.47 J A	15.7 J *#	11.7 J Q, A	13.4 J *#	8.58 J Q, A	15.7 J *#
Vanadium	mg/kg	36.9 J Q	33.8 J A	51.8 J *#	49.7 J E, A	46.3 J *#	42.0 J E, A	45.8 J Q
Zinc	mg/kg	50.0 J E	47.4 J A	69.3 J *#	59.4 J E	68.1 J *#	49.8 J E	65.5 J E
Zirconium	mg/kg	1.58 J Z	4.05 J Z	3.23 J Z	6.25	2.69 J Z	4.90 J Z	2.79 J Z
Calcium	mg/kg	34700	6750 J E	18600	4830 J A	8990	3410 J A	9750
Phosphorus	mg/kg	388 J E	346	540	150	361	210	294 J E
Selenium	mg/kg	0.0838 J Z	0.449 UJ Q	0.227 J Z	0.460 U B	0.191 J Z	0.459 U B	0.151 J Z
Chromium VI	mg/kg	1.2 U	1.1 U	0.50 J Z	0.83 J Z	1.1 U	1.1 U	0.82 J Z
Perchlorate (314.0)	ug/kg	34.8 U	34.4 U	35.1 U	35.2 U	34.3 U	34.4 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.7 U	--	--
Percent Moisture	%	13.9	12.7	14.5	14.7	12.5	12.8	10.1
pH	pH unit	7.93	8.62	7.99	7.22	7.82	7.95	7.52

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-018-SA8N-SS-0.0-0.5	SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	04/12/2011
SDG		DE140	DE140	DE125	DE142	DE125	DE142	DE125
Start Depth		4	7	0	4	0	4	0
End Depth		5	8	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	5	2.4	2.9
Fluoride	mg/kg	13	13.1	2.9 J Q	8.0 J Q	2.5 J Q	4.8 J Q	2.8 J Q
Cyanide	mg/kg	--	--	--	--	0.57 U	0.54 U	0.56 U
Aluminum	mg/kg	19200	15300	24900	24600	23600	23300	25000
Iron	mg/kg	24100	22400	27900	29700	28300	27300	27700
Lead	mg/kg	6.94 J A	6.46 J A	12.9 J *#	9.29 J Q, A	12.2 J *#	7.71 J Q, A	11.9 J *#
Lithium	mg/kg	20.8	19	23.4	24.3	21	20.6	23.1
Magnesium	mg/kg	5530	4710	6860	5330	6220	5170	6980
Manganese	mg/kg	346	305	414 J *#	458 J E	463 J *#	355 J E	428 J *#
Mercury	mg/kg	0.110 U	0.110 U	0.0408 J Z	0.110 UJ FD	0.0499 J Z	0.108 U	0.0375 J Z
Molybdenum	mg/kg	0.377	0.276	0.458	0.627 J E	0.56	0.457 J E	0.533
Nickel	mg/kg	15.4 J A	16.6 J A	16.2 J *#	19.3 J Q, A	17.7 J *#	24.7 J Q, A	17.5 J *#
Potassium	mg/kg	1570	1940	5210	2470	5140	2260	5500
Silver	mg/kg	0.0255 J Z	0.0200 J Z	0.0421 J Z	0.0574 J Z	0.0541 J Z	0.0559 J Z	0.0536 J Z
Sodium	mg/kg	699	459	138	425	112 J Z	374	104 J Z
Strontium	mg/kg	22.7	18.1	64.9 J *#	22.7	36.9 J *#	24.7	48.3 J *#
Thallium	mg/kg	0.258	0.225	0.314	0.347	0.287	0.268	0.34
Tin	mg/kg	11.1 U B	11.5 U B	11.6 U B	11.2 U B	11.5 U B	11.3 U B	11.6 U B
Titanium	mg/kg	1270	1270	1180	1170	1120	918	1170
Antimony	mg/kg	0.160 J Q, Z	0.146 J Q, Z	0.0903 J Q, E, Z	0.278 J Q	0.142 J Q, E, Z	0.217 J Q, Z	0.220 J Q, E, Z
Arsenic	mg/kg	6.85	6.26	5.87 J Q	7.52 J Q	6.50 J Q	5.99 J Q	6.43 J Q
Beryllium	mg/kg	0.761 J Q	0.643 J Q	0.736	0.970 J Q, E	0.781	0.820 J Q, E	0.804
Barium	mg/kg	78.5 J A	89.6 J A	129	136 J E, A	126	140 J E, A	122
Boron	mg/kg	1.04 J Z	5.73 U	17	3.14 J FD, Z	15.9	5.66 U	17.1
Cadmium	mg/kg	0.0449 J Z	0.125	0.328	0.116 J E	0.387	0.218 J E	0.289
Chromium	mg/kg	23.7 J A	22.5 J A	29.3 J *#	30.2 J Q, A	31.4 J *#	26.2 J Q, A	30.9 J *#
Cobalt	mg/kg	9.04 J A	10.1 J A	10.1	10.5 J E, A	10.9	10.1 J E, A	10.9
Copper	mg/kg	11.8 J A	10.2 J A	14.0 J *#	12.5 J Q, A	13.8 J *#	10.6 J Q, A	15.4 J *#
Vanadium	mg/kg	45.5 J A	47.8 J A	51.0 J *#	53.9 J E, A	55.4 J *#	44.9 J E, A	54.0 J *#
Zinc	mg/kg	55.7 J A	54.4 J A	68.6 J *#	59.3 J E	71.9 J *#	52.7 J E	74.6 J *#
Zirconium	mg/kg	4.11 J Z	4.16 J Z	3.13 J Z	5.27 J Z	3.76 J Z	5.39 J Z	3.19 J Z
Calcium	mg/kg	4210 J E	4270 J E	28700	3410 J A	14000	4060 J A	20800
Phosphorus	mg/kg	262	326	962	108 J FD	471	126	467
Selenium	mg/kg	0.0768 J Q, Z	0.458 UJ Q	0.236 J Z	0.445 UJ FD, B	0.196 J Z	0.453 U B	0.242 J Z
Chromium VI	mg/kg	1.1 U	0.38 J Z	1.1 J Z	1.1 U	0.53 J Z	1.2 U	0.45 J Z
Perchlorate (314.0)	ug/kg	33.9 U	35.0 U	35.0 U	34.1 U	35.8 U	34.6 U	34.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	11.5	14.4	14.3	11.9	16.3	13.4	13.6
pH	pH unit	8.3	8.47	7.97	7.84	8.02	7.52	7.97

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0	SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0
Sample Date		05/03/2011	05/03/2011	04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011
SDG		DE142	DE142	DE125	DE143	DE143	DE125	DE141
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	1.1 J Z	2	2.7	1.8	2.3	4.5	1.9
Fluoride	mg/kg	2.8 J Q	2.9 J Q	3.2 J Q	3.9 J Q	2.8 J Q	1.8 J Q	5.6
Cyanide	mg/kg	0.58 U	0.57 U	0.55 U	0.58 U	0.58 U	0.57 U	0.58 U
Aluminum	mg/kg	27200	25500	21500	27800	23900	22500	28300
Iron	mg/kg	33700	32000	25000	31500	28300	25400	33400
Lead	mg/kg	10.6 J Q, A	9.71 J Q, A	9.14 J *#	9.49 J E	10.9 J E	12.1 J *#	10.3 J Q, A
Lithium	mg/kg	23	25.9	20.3	24.2	26.9	22.6	24.1
Magnesium	mg/kg	6890	7770	6140	6980	6670	6240	7100
Manganese	mg/kg	510 J E	265 J E	374 J *#	410	251	406 J *#	485 J E
Mercury	mg/kg	0.117 U	0.116 U	0.0475 J Z	0.115 U	0.109 U	0.0452 J Z	0.116 U
Molybdenum	mg/kg	0.518 J E	0.277 J E	0.567	0.291 J E	0.263 J E	0.466	0.486 J E
Nickel	mg/kg	21.9 J Q, A	21.3 J Q, A	15.6 J *#	20.7 J E, Q	25.9 J E, Q	17.9 J *#	22.4 J Q, A
Potassium	mg/kg	4010	3090	4930	3860 J Q	2590 J Q	4790	4000
Silver	mg/kg	0.0554 J Z	0.0414 J Z	0.0370 J Z	0.0358 J Q, Z	0.0810 J Q, Z	0.0456 J Z	0.0550 J Z
Sodium	mg/kg	243	198	121	269	206	92.9 J Z	400
Strontium	mg/kg	30.5	33.9	41.7 J *#	30.6	46.4	37.5 J *#	32.6
Thallium	mg/kg	0.383	0.303	0.305	0.314	0.284	0.287	0.312
Tin	mg/kg	11.5 U B	11.9 U B	11.0 U B	11.7 U B	11.8 U B	11.6 U B	11.6 U B
Titanium	mg/kg	947	1280	1140	1450	1350	1130	1040
Antimony	mg/kg	0.296 J Q	0.252 J Q	0.141 J Q, E, Z	0.0765 J Q, E, Z	0.149 J Q, E, Z	0.115 J Q, E, Z	0.242 J Q
Arsenic	mg/kg	6.96 J Q	7.35 J Q	5.84 J Q	6.25 J E	8.04 J E	6.45 J Q	6.78 J Q
Beryllium	mg/kg	0.966 J Q, E	0.915 J Q, E	0.67	0.831 J E	1.03 J E	0.778	0.875 J Q, E
Barium	mg/kg	153 J E, A	126 J E, A	177	142 J E	152 J E	127	146 J E, A
Boron	mg/kg	1.53 J Z	4.28 J Z	15.1	8.97	9.54	15.1	4.04 J Z
Cadmium	mg/kg	0.264 J E	0.238 J E	0.288	0.290 J E, Q	0.474 J E, Q	0.428	0.263 J E
Chromium	mg/kg	34.1 J Q, A	34.6 J Q, A	26.7 J *#	29.0 J E, Q	39.5 J E, Q	32.1 J *#	33.8 J Q, A
Cobalt	mg/kg	10.1 J E, A	9.80 J E, A	10.1	10.5 J E, Q	13.3 J E, Q	12.2	11.9 J E, A
Copper	mg/kg	17.4 J Q, A	16.7 J Q, A	13.5 J *#	94.0 J E, Q	16.6 J E, Q	17.2 J *#	16.8 J Q, A
Vanadium	mg/kg	55.4 J E, A	61.1 J E, A	48.3 J *#	51.6 J E	84.4 J E	56.1 J *#	58.4 J E, A
Zinc	mg/kg	71.4 J E	73.0 J E	80.9 J *#	65.7 J E	81.1 J E	82.2 J *#	69.8 J E
Zirconium	mg/kg	6.26	7.59	2.42 J Z	2.05 J Z	3.39 J Z	2.90 J Z	6.33
Calcium	mg/kg	5640 J A	6820 J A	18300	6710	51800	18900	6930 J A
Phosphorus	mg/kg	193	404	706	276	427	485	291
Selenium	mg/kg	0.468 U B	0.472 U B	0.271 J Z	0.159 J Z	0.117 J Z	0.183 J Z	0.453 U B
Chromium VI	mg/kg	1.2 U	1.2	1.1 U	1.2 U	1.2 U	0.47 J Z	0.53 J Z
Perchlorate (314.0)	ug/kg	35.1 U	36.8 U	33.9 U	199	57.4	35.1 U	35.0 U
Perchlorate (6850)	ug/kg	--	--	3.8 J Z	180	--	--	5.8 U
Percent Moisture	%	14.6	18.5	11.5	14.5	14.9	14.6	14.3
pH	pH unit	7.5	7.64	7.85	7.61	8.15	7.97	8.13

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8N-SB-9.0-10.0	SL-023-SA8N-SS-0.0-0.5	SL-023-SA8N-SB-4.0-5.0	SL-023-SA8N-SB-9.0-10.0	SL-027-SA8N-SS-0.0-0.5	SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0
Sample Date		05/02/2011	04/12/2011	05/02/2011	05/02/2011	04/13/2011	04/26/2011	04/26/2011
SDG		DE141	DE125	DE141	DE141	DE126	DE137	DE137
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	1.6 J Z	--	--	--	--	--	--
Fluoride	mg/kg	6	1.8 J Q	2.5	4.3	2.6 J Q	8.3	8
Cyanide	mg/kg	0.60 U	--	--	--	--	--	--
Aluminum	mg/kg	27200	25600	29000	19100	27200	31500	28700
Iron	mg/kg	33700	30000	36200	23400	29600	32400	29100
Lead	mg/kg	9.22 J Q, A	13.9 J *#	11.8 J Q, A	10.7 J Q, A	31.2 J E	12.5 J Q, E	9.61 J Q, E
Lithium	mg/kg	25.2	22.6	23.2	20.4	25.1	26.5	31.7
Magnesium	mg/kg	7860	7740	6850	6010	7940	7260	6000
Manganese	mg/kg	561 J E	491 J *#	458 J E	305 J E	444	317	321
Mercury	mg/kg	0.116 U	0.0223 J Z	0.112 U	0.120 U	0.0873 J Z	0.111 U	0.109 U B
Molybdenum	mg/kg	0.421 J E	0.566	0.631 J E	0.358 J E	0.779 J E	0.237 J E	0.567 J E
Nickel	mg/kg	27.5 J Q, A	18.1 J *#	27.0 J Q, A	23.8 J Q, A	28.5 J E, Q	24.0 J Q, E, *#	25.5 J Q, E, *#
Potassium	mg/kg	3550	6990	3650	2430	6680	2500 J Q	3300 J Q
Silver	mg/kg	0.0596 J Z	0.0501 J Z	0.0676 J Z	0.0606 J Z	0.298 J FD	0.0436 J Q, E, Z	0.0634 J Q, E, Z
Sodium	mg/kg	150	88.1 J Z	112 J Z	128	219	268	272
Strontium	mg/kg	36	29.0 J *#	43.8	138	111	48.3	43.6
Thallium	mg/kg	0.356	0.36	0.378	0.328	0.340 J Q	0.329	0.451
Tin	mg/kg	11.8 U B	11.4 U B	11.4 U B	11.9 U B	11.8 U B	11.6 U B	11.2 U B
Titanium	mg/kg	1390	1280	841	912	1360	1080	1220
Antimony	mg/kg	0.257 J Q	0.109 J Q, E, Z	0.329 J Q	0.272 J Q	0.678 J Q	0.0956 J Q, E, Z	0.211 J Q, E, Z
Arsenic	mg/kg	7.28 J Q	6.37 J Q	7.90 J Q	7.30 J Q	7.19 J Q	8.51 J Q, E	8.50 J Q, E
Beryllium	mg/kg	0.905 J Q, E	0.785	1.02 J Q, E	0.923 J Q, E	0.970 J E	1.07 J E	1.07 J E
Barium	mg/kg	120 J E, A	129	177 J E, A	108 J E, A	198 J E	150 J E, *#	133 J E, *#
Boron	mg/kg	5.08 J Z	18.4	5.08 J Z	6.07	23.6	12.9	9.91
Cadmium	mg/kg	0.344 J E	0.428	0.260 J E	0.270 J E	1.30 J Q	0.228 J Q, E	0.362 J Q, E
Chromium	mg/kg	32.3 J Q, A	31.7 J *#	36.4 J Q, A	34.2 J Q, A	39.7 J E, Q, *#	32.5 J Q, *#	30.9 J Q, *#
Cobalt	mg/kg	12.0 J E, A	11.2	13.2 J E, A	11.1 J E, A	10.7 J E, Q	17.7 J Q, E, *#	10.1 J Q, E, *#
Copper	mg/kg	17.9 J Q, A	17.0 J *#	17.7 J Q, A	19.1 J Q, A	57.3 J E	18.9 J Q, E, *#	17.7 J Q, E, *#
Vanadium	mg/kg	59.1 J E, A	55.0 J *#	63.9 J E, A	61.9 J E, A	65.4 J E	57.0 J Q, *#	63.8 J Q, *#
Zinc	mg/kg	72.9 J E	83.7 J *#	74.0 J E	67.9 J E	182 J E	73.4 J E, *#	77.5 J E, *#
Zirconium	mg/kg	8.41	3.19 J Z	5.48 J Z	5.66 J Z	7.09	2.01 J Z	2.38 J Z
Calcium	mg/kg	8910 J A	8600	11200 J A	141000 J A	26900	26400	19900
Phosphorus	mg/kg	356	658	254	457	1580	218	308
Selenium	mg/kg	0.477 U B	0.257 J Z	0.473 U B	0.470 U B	0.216 J Z	0.0733 J Z	0.0686 J Z
Chromium VI	mg/kg	0.60 J Z	1.2 U	0.63 J Z	0.39 J Z	0.65 J FD, Z	1.2 U	0.37 J Z
Perchlorate (314.0)	ug/kg	35.8 U	35.0 U	35.5 U	36.3 U	35.4 U	34.8 U	34.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.1	14.3	15.5	17.3	15.2	13.7	12.5
pH	pH unit	8	7.85	8.01	8.14	8.27	8.05	8.03

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0	SL-032-SA8N-SB-9.0-10.0	SL-036-SA8N-SS-0.0-0.5
Sample Date		04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011	04/27/2011	04/12/2011
SDG		DE126	DE137	DE137	DE126	DE138	DE138	DE125
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.9 J Q	3	4.9	2.2 J Q	5.7	5.7	1.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	21200	28000	17300	18100	37500	16600	26800
Iron	mg/kg	25300	28700	17500	22900	36900	15700	30800
Lead	mg/kg	22.8 J E	8.21 J Q, E	4.42 J Q, E	15.2 J E	11	5.93	14.7 J *#
Lithium	mg/kg	22.4	26.2	22.6	21.4	32.6	22.8	24.5
Magnesium	mg/kg	6090	7230	3760	5220	8060	4940	8220
Manganese	mg/kg	383	408	185	306	471	177	477 J *#
Mercury	mg/kg	0.0341 J Z	0.117 U	0.108 U	0.0494 J Z	0.114 U B	0.117 U B	0.0163 J Z
Molybdenum	mg/kg	0.495 J E	0.145 J E	0.145 J E	0.687 J E	0.238	0.198	0.501
Nickel	mg/kg	17.5 J E, Q	23.5 J Q, E, *#	9.72 J Q, E, *#	19.8 J E, Q	25	14	18.9 J *#
Potassium	mg/kg	5870	2110 J Q	1760 J Q	4580	2420	1420	7430
Silver	mg/kg	0.0961 J Z	0.0375 J Q, E, Z	0.0133 J Q, E, Z	0.0537 J Z	0.0709 J Z	0.0262 J Z	0.0529 J Z
Sodium	mg/kg	138	316	221	167	233	142	85.3 J Z
Strontium	mg/kg	66	57.3	59.2	30.7	64.5	268	33.3 J *#
Thallium	mg/kg	0.278 J Q	0.244	0.234	0.475 J Q	0.301	0.222	0.345
Tin	mg/kg	12.0 U B	11.3 U B	10.8 U B	10.7 U B	11.8 U B	11.6 U B	12.0 U B
Titanium	mg/kg	1390	1160	1040	1270	1250	726	1290
Antimony	mg/kg	0.240 J Q	0.0855 J Q, E, Z	0.214 UJ Q, E	0.113 J Q, Z	0.170 J Z	0.0901 J Z	0.248 J Q, E
Arsenic	mg/kg	5.05 J Q	6.53 J Q, E	4.06 J Q, E	7.70 J Q	7.78	5.26	6.63 J Q
Beryllium	mg/kg	0.630 J E	1.04 J E	0.620 J E	0.894 J E	1.09	0.588	0.81
Barium	mg/kg	114 J E	113 J E, *#	67.3 J E, *#	137 J E	140	103	123
Boron	mg/kg	12.5	12.1	4.60 J Z	6.94	13.7	8.1	18.3
Cadmium	mg/kg	1.14 J Q	0.210 J Q, E	0.155 J Q, E	0.274 J Q	0.195	0.227	0.382
Chromium	mg/kg	25.0 J E, Q, *#	34.2 J Q, *#	14.4 J Q, *#	28.9 J E, Q, *#	34.7	20.7	33.0 J *#
Cobalt	mg/kg	7.61 J E, Q	8.46 J Q, E, *#	5.11 J Q, E, *#	11.2 J E, Q	12	6.02	11.3
Copper	mg/kg	27.0 J E	16.2 J Q, E, *#	6.28 J Q, E, *#	20.1 J E	20.3	10.6	16.7 J *#
Vanadium	mg/kg	43.2 J E	56.4 J Q, *#	32.6 J Q, *#	52.9 J E	62.9	42.2	59.2 J *#
Zinc	mg/kg	125 J E	58.8 J E, *#	48.1 J E, *#	99.9 J E	68.2	37.6	83.4 J *#
Zirconium	mg/kg	4.91 J Z	2.99 J Z	1.50 J Z	3.82 J Z	2.07 J Z	2.25 J Z	3.14 J Z
Calcium	mg/kg	18700	47600	50500	7260	17000	233000	11800
Phosphorus	mg/kg	874	259	220	552	134	272	596
Selenium	mg/kg	0.177 J Z	0.0581 J Z	0.0818 J Z	0.151 J Z	0.0637 J Z	0.101 J Z	0.227 J Z
Chromium VI	mg/kg	0.70 J Z	1.2 U	1.1 U	1.3	1.2 U	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	36.3 U	35.3 U	33.4 U	32.4 U	35.5 U	36.0 U	36.5 U
Perchlorate (6850)	ug/kg	--	--	--	5.4 U	5.9 U	--	--
Percent Moisture	%	17.4	15	10.1	7.4	15.6	16.6	17.8
pH	pH unit	7.92	8.25	8.34	7.94	7.91	8.26	7.6

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0	SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0
Sample Date		04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011	04/28/2011	04/28/2011
SDG		DE136	DE136	DE127	DE140	DE140	DE139	DE139
Start Depth		4	9	0	4	9	4	9
End Depth		5	10	0.5	5	10	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.7	4.4	1.9 J Q	1.6	4.6	1.6 J Q	6.8 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	36400	34400	15500	31900	21900	33600	30400
Iron	mg/kg	34100	33800	19700	37900	25200	36800	28200
Lead	mg/kg	11.8 J Q, E	11.4 J Q, E	9.16 J E, *#	9.31 J A	9.16 J A	12.8	8.50 J *#
Lithium	mg/kg	28.4	30.4	19.7	28.8	25	27.3	26.2
Magnesium	mg/kg	7600	7680	4230	7890	6740	7780	5970
Manganese	mg/kg	456	346	287	493	375	461	201
Mercury	mg/kg	0.109 U	0.122 U	0.103 U	0.115 U	0.116 U	0.114 U B	0.115 U
Molybdenum	mg/kg	0.361 J E	0.241 J E	0.458 J E	0.359	0.24	0.302	0.186
Nickel	mg/kg	26.3 J Q, E, *#	27.0 J Q, E, *#	13.8 J Q, *#	20.9 J A	17.1 J A	28.4	18.8 J *#
Potassium	mg/kg	4690 J Q	2500 J Q	3290	5260	2930	4370	1950
Silver	mg/kg	0.0569 J Q, E, Z	0.0794 J Q, E, Z	0.0338 J Z	0.0278 J Z	0.0388 J Z	0.0693 J Z	0.0427 J Z
Sodium	mg/kg	126	135	90.6 J Z	113 J Z	195	154	310
Strontium	mg/kg	48.3	52.8	27.5	45.6	181	50.5	56.8
Thallium	mg/kg	0.435	0.359	0.223 J Q	0.306	0.318	0.47	0.298
Tin	mg/kg	11.6 U B	12.2 U B	10.7 U B, Z	11.9 U B	12.0 U B	11.4 U B	11.6 U B
Titanium	mg/kg	1510	1140	1010	1290	1190	1320	1020
Antimony	mg/kg	0.114 J Q, E, Z	0.248 UJ Q, E	0.205 UJ Q	0.303 J Q	0.232 J Q, Z	0.147 J Z	0.222 J Q, Z
Arsenic	mg/kg	7.35 J Q, E	9.21 J Q, E	4.07 J Q	5.99	6.65	7.78	8.01
Beryllium	mg/kg	1.09 J E	0.983 J E	0.556	0.800 J Q	0.765 J Q	1.22	0.872 J Q
Barium	mg/kg	181 J E, *#	143 J E, *#	119 J *#	130 J A	108 J A	204	123 J *#
Boron	mg/kg	16.1	13.1	2.98 J Z	7.56	8.76	14.6	4.58 J Z
Cadmium	mg/kg	0.331 J Q, E	0.254 J Q, E	0.321 J Q, E	0.279	0.311	0.278	0.186
Chromium	mg/kg	37.0 J Q, *#	38.1 J Q, *#	19.2 J E, *#	31.4 J A	31.8 J A	39.5	31.5 J *#
Cobalt	mg/kg	14.7 J Q, E, *#	12.8 J Q, E, *#	6.80 J *#	10.7 J A	8.69 J A	15.5	12.6 J *#
Copper	mg/kg	20.5 J Q, E, *#	21.1 J Q, E, *#	12.0 J Q, *#	16.5 J A	15.4 J A	21.1	14.4 J *#
Vanadium	mg/kg	68.6 J Q, *#	71.9 J Q, *#	35.5 J *#	55.6 J A	62.3 J A	74	56.3 J *#
Zinc	mg/kg	82.9 J E, *#	80.4 J E, *#	61.5 J *#	73.1 J A	61.9 J A	89.1	47.1 J *#
Zirconium	mg/kg	3.71 J Z	1.60 J Z	2.48 J Z	6.47	5.49 J Z	2.36 J Z	5.40 J Z
Calcium	mg/kg	19200	28800	3360	10400 J E	98600 J E	17300	50100 J E
Phosphorus	mg/kg	305	209	412	356	488	307	140
Selenium	mg/kg	0.173 J Z	0.101 J Z	0.124 J Z	0.251 J Q, Z	0.126 J Q, Z	0.130 J Z	0.463 UJ Q
Chromium VI	mg/kg	0.38 J Z	1.2 U	1.1	0.56 J Z	0.37 J Z	0.32 J Z	0.30 J Z
Perchlorate (314.0)	ug/kg	35.3 U	37.3 U	32.3 U	35.9 U	36.7 U	35.3 U	35.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	15	19.5	7.1	16.5	18.3	15.1	14.4
pH	pH unit	7.85	8.08	7.2	7.89	8.07	7.87	8.07

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5	SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5
Sample Date		04/13/2011	04/12/2011	04/12/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011
SDG		DE126	DE125	DE125	DE124	DE140	DE140	DE125
Start Depth		0	0	0	0	4	8	0
End Depth		0.5	0.5	0.5	0.5	5	9	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	1.9	--	1.3 J Z	1.5 J Z	1.8 U	--
Fluoride	mg/kg	2.4 J Q	1.6	3.3	5.6 J Q	8.8	5.2	2.6
Cyanide	mg/kg	--	0.57 U	--	0.55 U	0.56 U	0.59 U	--
Aluminum	mg/kg	21100	24300	24100	21700	23500	22300	24900
Iron	mg/kg	26200	28200	26600	27100	27500	38800	28200
Lead	mg/kg	14.9 J E	9.97 J *#	11.0 J *#	8.62 J Q	6.59 J A	7.21 J A	11.8 J *#
Lithium	mg/kg	20	24.7	21.8	25.2	30.4	41	22.8
Magnesium	mg/kg	6460	7490	6510	6260	5470	8580	7570
Manganese	mg/kg	396	416 J *#	445 J *#	461	312	302	440 J *#
Mercury	mg/kg	0.0155 J Z	0.0430 J Z	0.0143 J Z	0.109 U	0.108 U	0.0196 J Z	0.0174 J Z
Molybdenum	mg/kg	0.665 J E	0.447	0.596	0.307	0.506	0.263	0.525
Nickel	mg/kg	23.6 J E, Q	16.6 J *#	15.2 J *#	16.8 J E, Q	18.1 J A	18.1 J A	17.7 J *#
Potassium	mg/kg	6310	5580	4990	2640 J Q	2020	2100	6250
Silver	mg/kg	0.0697 J Z	0.0228 J Z	0.0411 J Z	0.0373 J Z	0.0602 J Z	0.101 J Z	0.0288 J Z
Sodium	mg/kg	96.1 J Z	121	149	117	641	698	109 J Z
Strontium	mg/kg	31.6	71.3 J *#	36.6 J *#	27.7	19.5	33.7	48.4 J *#
Thallium	mg/kg	0.428 J Q	0.301	0.314	0.287	0.291	0.29	0.303
Tin	mg/kg	11.0 U B	11.6 U B	12.7 U B	11.1 U B, Z	11.1 U B	11.8 U B	12.1 U B
Titanium	mg/kg	1530	1200	1300	1340	1450	1540	1220
Antimony	mg/kg	0.472 J Q	0.141 J Q, E, Z	0.184 J Q, E, Z	0.0804 J Q, Z	0.246 J Q	0.103 J Q, Z	0.200 J Q, E, Z
Arsenic	mg/kg	6.22 J Q	5.56 J Q	6.27 J Q	6.34 J Q, E	7.08	7.42	6.39 J Q
Beryllium	mg/kg	0.880 J E	0.712	0.775	0.705	0.775 J Q	0.914 J Q	0.746
Barium	mg/kg	130 J E	125	114	98.7	76.6 J A	70.2 J A	111
Boron	mg/kg	9.5	17.2	14.4	11.2	1.05 J Z	5.88 U	18.3
Cadmium	mg/kg	0.450 J Q	0.305	0.274	0.211 J E, Q	0.138	0.0995 J Z	0.345
Chromium	mg/kg	35.1 J E, Q, *#	30.5 J *#	28.3 J *#	24.9 J Q	26.4 J A	25.2 J A	32.2 J *#
Cobalt	mg/kg	11.7 J E, Q	10.3	10.6	8.17 J E	9.88 J A	6.92 J A	10.4
Copper	mg/kg	22.1 J E	14.1 J *#	14.6 J *#	13.8 J *#	12.6 J A	17.7 J A	15.7 J *#
Vanadium	mg/kg	61.9 J E	55.6 J *#	50.0 J *#	44.7 J Q	57.0 J A	44.2 J A	56.3 J *#
Zinc	mg/kg	93.7 J E	76.6 J *#	66.8 J *#	69.4 J E	56.0 J A	62.7 J A	74.3 J *#
Zirconium	mg/kg	5.55	2.33 J Z	3.40 J Z	1.81 J Z	5.58	6.58	2.73 J Z
Calcium	mg/kg	8440	38100	13500	12100	4550 J E	31200 J E	22100
Phosphorus	mg/kg	663	548	432	326 J E	214	543	584
Selenium	mg/kg	0.263 J Z	0.216 J Z	0.238 J Z	0.0872 J Z	0.0501 J Q, Z	0.0760 J Q, Z	0.244 J Z
Chromium VI	mg/kg	0.58 J Z	0.39 J Z	0.47 J Z	0.43 J Z	0.34 J Z	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	32.9 U	35.4 U	38.1 U	33.6 U	33.7 U	35.6 U	36.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	6.1 U
Percent Moisture	%	8.9	15.2	21.3	10.8	11	15.8	18.4
pH	pH unit	7.57	8.17	8.03	8.36	8.46	8.81	8.18

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0	SL-051-SA8N-SB-7.5-8.5	SL-054-SA8N-SB-7.0	SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0
Sample Date		05/02/2011	05/02/2011	06/17/2011	06/17/2011	04/18/2011	05/05/2011	05/05/2011
SDG		DE141	DE141	DE183	DE183	DE130	DE144	DE144
Start Depth		4	9	7.5	7	0	4	7
End Depth		5	10	8.5	7	0.5	5	8
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	3.6	2.8	2.1
Fluoride	mg/kg	4.4	7.8	2.7	--	2.1 J Q	2.5 J Q	2.1 J Q
Cyanide	mg/kg	--	--	--	--	0.59 U	0.56 U	0.53 U
Aluminum	mg/kg	27900	18600	29200	--	24800	18700	10700
Iron	mg/kg	30400	25700	30500	--	31600	21600	19700
Lead	mg/kg	13.5 J Q, A	6.47 J Q, A	11.8 J E, Q	--	10.7 J *#	18.5 J E	3.95 J E
Lithium	mg/kg	21.6	24.7	21.6	--	28.3	15.2	23.1
Magnesium	mg/kg	5690	6120	6220	--	8120	4090	4610
Manganese	mg/kg	338 J E	366 J E	532	--	429	401 J E	267 J E
Mercury	mg/kg	0.117 U	0.118 U	0.0084 J Z	--	0.0111 J Z	0.109 U	0.102 U
Molybdenum	mg/kg	0.854 J E	0.424 J E	0.88	--	0.624	1.39 J E	0.294 J E
Nickel	mg/kg	29.1 J Q, A	22.3 J Q, A	22.7	--	19.1 J *#	23.7 J E, Q	16.4 J E, Q
Potassium	mg/kg	2320	1860	5570 J Q	--	6360 J Q	3510 J E	1600 J E
Silver	mg/kg	0.0910 J Z	0.0389 J Z	0.0513 J Z	--	0.0468 J Z	0.0402 J Q, Z	0.0137 J Q, Z
Sodium	mg/kg	354	567	237	--	131	126	143
Strontium	mg/kg	27.6	23.2	32.5	--	73.3	23.2	13.3
Thallium	mg/kg	0.419	0.368	0.429	--	0.315	0.297 J Q	0.370 J Q
Tin	mg/kg	11.4 U B	11.8 U B	10.7 U B	--	11.4 U B	11.5 U B	10.5 U B
Titanium	mg/kg	794	1260	1550 J L	--	1360	1330	1280
Antimony	mg/kg	0.304 J Q	0.113 J Q, Z	0.212 UJ B, Q	--	0.231 J Q	0.439 J Q, E	0.211 UJ Q, E
Arsenic	mg/kg	9.98 J Q	7.85 J Q	7.26	--	6.18 J Q	10.6 J E	5.39 J E
Beryllium	mg/kg	1.21 J Q, E	0.746 J Q, E	0.928	--	0.702	1.07 J E	0.511 J E
Barium	mg/kg	145 J E, A	101 J E, A	160	--	130	142 J E	95.7 J E
Boron	mg/kg	5.72 U	5.88 U	6.89	--	5.72 U F, Z	7.14	3.34 J Z
Cadmium	mg/kg	0.194 J E	0.123 J E	0.461	--	0.279	0.492 J Q	0.0512 J Q, Z
Chromium	mg/kg	38.8 J Q, A	24.9 J Q, A	41.2	--	30.5 J *#	26.3 J E, Q	18.7 J E, Q
Cobalt	mg/kg	14.4 J E, A	9.39 J E, A	12.2	--	10.3 J *#	12.7 J E, Q	6.42 J E, Q
Copper	mg/kg	19.3 J Q, A	12.9 J Q, A	21.2 J E	--	16.9 J *#	17.5 J E, Q	7.97
Vanadium	mg/kg	66.8 J E, A	49.0 J E, A	73.8	--	57.9 J Q, *#	70.6 J E	40.3 J E
Zinc	mg/kg	79.1 J E	63.3 J E	78.9	--	81.1	67.9 J E	64.2 J E
Zirconium	mg/kg	4.72 J Z	6.1	5.65	--	2.59 J Z	2.00 J Z	1.82 J Z
Calcium	mg/kg	4800 J A	5470 J A	6070 J E	--	35500	4850	3260
Phosphorus	mg/kg	117	322	321 J Q	--	731	235	362
Selenium	mg/kg	0.466 U B	0.475 U B	0.316 J Z	--	0.795	0.288 J Z	0.0679 J Z
Chromium VI	mg/kg	0.48 J Z	0.62 J Z	0.93 J Z	--	1.2 U	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	35.7 U	35.6 U	33.0 U	--	35.0 U	34.4 U	32.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	5.7 U	--
Percent Moisture	%	15.9	15.8	9.2	7.3	14.3	12.7	7
pH	pH unit	7.66	8.5	7.8	--	8.26	7.97	8.15

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA8N-SS-0.0-0.5	SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-058-SA8N-SB-7.5	SL-059-SA8N-SB-9.0	SL-062-SA8N-SS-0.0-0.5	SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	05/05/2011	05/05/2011	06/17/2011	06/17/2011	04/15/2011	05/05/2011	04/15/2011
SDG		DE130	DE144	DE144	DE183	DE183	DE129	DE144	DE129
Start Depth		0	4	7	7.5	9	0	4	0
End Depth		0.5	5	8	7.5	9	0.5	5	0.5
Chemical Name	Unit								
Nitrate	mg/kg	1.7 U	2.6	4.4	--	--	1.0 J Z	4.9	3.1
Fluoride	mg/kg	2.4 J Q	1.3 J Q	1.7 J Q	--	--	2.4 J Q	1.7 J Q	2.4 J Q
Cyanide	mg/kg	0.55 U	0.56 U	0.55 U	--	--	0.56 U	0.56 U	0.61 U
Aluminum	mg/kg	25600	23300	20800	--	--	24100	20300	24600
Iron	mg/kg	31500	29200	25200	--	--	30600	25000	31300
Lead	mg/kg	10.0 J *#	10.4 J E	9.47 J E	--	--	9.74 J E, *#	11.5 J E	10.9 J E, *#
Lithium	mg/kg	30.7	28	24	--	--	30.5	23.1	30.1
Magnesium	mg/kg	8760	7540	7090	--	--	8340	6900	8370
Manganese	mg/kg	410	320 J E	311 J E	--	--	376	319 J E	406
Mercury	mg/kg	0.0138 J Z	0.0310 J Z	0.105 U	--	--	0.107 U	0.110 U	0.0054 J Q, Z
Molybdenum	mg/kg	0.449	0.399 J E	0.258 J E	--	--	0.326 J E	0.244 J E	0.320 J E
Nickel	mg/kg	19.8 J *#	23.4 J E, Q	22.4 J E, Q	--	--	19.3 J Q, *#	26.6 J E, Q	19.1 J Q, *#
Potassium	mg/kg	7080 J Q	5480 J E	4090 J E	--	--	6700	4200 J E	6720
Silver	mg/kg	0.0356 J Z	0.0267 J Q, Z	0.0247 J Q, Z	--	--	0.0290 J Z	0.110 U	0.0214 J Z
Sodium	mg/kg	126	162	191	--	--	135	183	118
Strontium	mg/kg	82.2	115	192	--	--	75	189	101
Thallium	mg/kg	0.352	0.397 J Q	0.338 J Q	--	--	0.356 J Q	0.370 J Q	0.347 J Q
Tin	mg/kg	10.9 U B	11.1 U B	11.0 U B	--	--	10.9 U B, Z	11.0 U B	11.7 U B, Z
Titanium	mg/kg	1450	1220	1170	--	--	1280	1180	1250
Antimony	mg/kg	0.226 J Q	0.0992 J Q, E, Z	0.116 J Q, E, Z	--	--	0.141 J Q, Z	0.220 UJ Q, E	0.172 J Q, Z
Arsenic	mg/kg	5.87 J Q	6.43 J E	6.17 J E	--	--	5.23 J Q	7.39 J E	5.15 J Q
Beryllium	mg/kg	0.669	0.806 J E	0.748 J E	--	--	0.723	0.872 J E	0.711
Barium	mg/kg	107	128 J E	112 J E	--	--	99.0 J *#	131 J E	102 J *#
Boron	mg/kg	5.45 U F, Z	13.3	12.9	--	--	10.3	12.4	10.6
Cadmium	mg/kg	0.259	0.284 J Q	0.487 J Q	--	--	0.226 J Q, E	0.460 J Q	0.270 J Q, E
Chromium	mg/kg	31.1 J *#	34.1 J E, Q	28.6 J E, Q	--	--	31.3 J E, *#	36.8 J E, Q	31.8 J E, *#
Cobalt	mg/kg	10.7 J *#	12.0 J E, Q	11.1 J E, Q	--	--	10.3 J *#	13.6 J E, Q	9.63 J *#
Copper	mg/kg	17.8 J *#	18.8 J E, Q	18.1 J E, Q	--	--	16.4 J Q, *#	22.1 J E, Q	16.5 J Q, *#
Vanadium	mg/kg	59.9 J Q, *#	68.8 J E	61.3 J E	--	--	59.6 J *#	75.8 J E	59.3 J *#
Zinc	mg/kg	80	74.2 J E	68.2 J E	--	--	75.9 J *#	85.4 J E	72.9 J *#
Zirconium	mg/kg	2.22 J Z	1.35 J Z	1.77 J Z	--	--	3.42 J Z	1.75 J Z	3.37 J Z
Calcium	mg/kg	39100	68200	117000	--	--	36100	113000	51800
Phosphorus	mg/kg	696	584	511	--	--	645	585	633
Selenium	mg/kg	0.376 J Z	0.292 J Z	0.277 J Z	--	--	0.275 J Z	0.325 J Z	0.298 J Z
Chromium VI	mg/kg	1.1 U	1.2 U	0.35 J Z	--	--	0.48 J Z	1.2 U	0.43 J Z
Perchlorate (314.0)	ug/kg	33.7 U	34.7 U	33.0 U	--	--	34.1 U	34.7 U	36.7 U
Perchlorate (6850)	ug/kg	--	--	5.5 U	--	--	--	--	--
Percent Moisture	%	11	13.6	9.1	10	18.8	11.9	7.6	18.3
pH	pH unit	8.01	8.09	8.18	--	--	8.26	8.1	8.13

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5	SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5
Sample Date		05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011	06/08/2011	06/08/2011
SDG		DE143	DE130	DE175	DE131	DE131	DE176	DE176
Start Depth		4	0	2	0	0	4	7.5
End Depth		5	0.5	3	0.5	0.5	5	8.5
Chemical Name	Unit							
Nitrate	mg/kg	15.2	3.4	1.2 J Z	30.1	1.2 J Z	1.5 J Z	1.5 J Z
Fluoride	mg/kg	2.2 J Q	1.7 J Q	1.1 UJ Q	2.9 J Q	2.6 J Q	2.5 J Q	1.5 J Q
Cyanide	mg/kg	0.60 U	0.23 J Z	0.54 U	0.56 U	0.57 U	0.54 U	0.57 U
Aluminum	mg/kg	26100	14400	18200	22500	19900	24500	25600
Iron	mg/kg	32100	19400	21300	29600	24700	23200	20900
Lead	mg/kg	11.0 J E	12.6 J *#	9.46 J Q	10.8	8.49	7.66 J E, Q	8.54 J E, Q
Lithium	mg/kg	26.8	25.8	29.4	28.2	25.9	31.3	23.8
Magnesium	mg/kg	7630	4380	4410	8090	4890	4360	4140
Manganese	mg/kg	347	402	267 J E	378	330	280 J E	156 J E
Mercury	mg/kg	0.118 U	0.0449 J Z	0.0117 J Z	0.0139 J Z	0.0303 J Z	0.107 U F	0.109 U
Molybdenum	mg/kg	0.360 J E	0.722	0.962 J Q	0.519	0.868	1.18 J Q	1.18 J Q
Nickel	mg/kg	26.4 J E, Q	10.5 J *#	14.4 J Q, E	22.2 J Q, *#	17.0 J Q, *#	16.0 J Q	15.0 J Q
Potassium	mg/kg	4720 J Q	3630 J Q	3050 J Q	6100	3840	2160	1510
Silver	mg/kg	0.0517 J Q, Z	0.0362 J Z	0.0615 J Q, Z	0.0324 J Z	0.0497 J Z	0.0697 J Q, Z	0.130 J Q
Sodium	mg/kg	127	82.1 J Z	69.6 J Z	162	166	122	156
Strontium	mg/kg	40.2	22.6	10.7	86.2	23.6	16.8	24
Thallium	mg/kg	0.398	0.269	0.386 J Q	0.393	0.375	0.333 J Q	0.295 J Q
Tin	mg/kg	12.1 U B	11.6 U B	10.7 U B	11.6 U B	11.1 U B	11.1 U B	11.2 U B
Titanium	mg/kg	1450	1110	1260	1260	1190	1210	1240
Antimony	mg/kg	0.145 J Q, E, Z	0.111 J Q, Z	0.135 J Q, Z	0.0702 J Q, E, Z	0.128 J Q, E, Z	0.275 J Q	0.169 J Q, Z
Arsenic	mg/kg	6.59 J E	4.32 J Q	6.79 J Q, E	7.13	6.9	9.52 J E	11.6 J E
Beryllium	mg/kg	0.977 J E	0.428	0.786 J Q	0.797	0.844	0.872 J Q	0.791 J Q
Barium	mg/kg	166 J E	106	128	127 J E, *#	123 J E, *#	119	114
Boron	mg/kg	11.8	5.80 U F	6.69	5.82 U F, Z	5.57 U F	4.48 J Z	3.81 J Z
Cadmium	mg/kg	0.294 J E, Q	0.263	0.168 J Q	0.350 J Q	0.213 J Q	0.0781 J Q, Z	0.0512 J Q, Z
Chromium	mg/kg	35.5 J E, Q	14.3 J *#	19.6 J Q, A	35	26.4	18.8 J Q, A	20.0 J Q, A
Cobalt	mg/kg	14.3 J E, Q	5.44 J *#	7.01 J E, Q	12.5 J Q	9.36 J Q	6.63 J Q	7.48 J Q
Copper	mg/kg	20.2 J E, Q	8.95 J *#	8.79 J Q	19.1 J Q	14.4 J Q	10.2 J Q, A	8.54 J Q, A
Vanadium	mg/kg	79.3 J E	29.6 J Q, *#	41.7 J E, A	68.6	49.9	40.1 J Q, A	42.8 J Q, A
Zinc	mg/kg	90.9 J E	71.6	88.2	87.9	75.4	62.6	69.3
Zirconium	mg/kg	3.21 J Z	5.80 U	5.35 U	3.10 J Z	2.78 J Z	3.47 J Z	3.24 J Z
Calcium	mg/kg	14700	3450	1420 J E	46000	3380	2430	1990
Phosphorus	mg/kg	482	644	526	619	307	238	234
Selenium	mg/kg	0.183 J Z	0.224 J Z	0.432	0.315 J Z	0.250 J Z	0.127 J Q, Z	0.273 J Q, Z
Chromium VI	mg/kg	0.41 J Z	0.48 J Z	0.30 J Z	0.50 J Z	0.50 J Z	0.51 J Z	1.5
Perchlorate (314.0)	ug/kg	36.2 U	35.1 U	32.4 U	34.9 U	33.7 U	33.9 U	34.5 U
Perchlorate (6850)	ug/kg	6.0 U	--	--	--	--	--	--
Percent Moisture	%	17.2	14.6	7.4	14.1	11.1	11.4	13.1
pH	pH unit	7.85	6.58	5.41	6.45	6.46	6.9	6.36

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0	SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011	06/06/2011	04/18/2011
SDG		DE131	DE127	DE146	DE127	DE174	DE174	DE130
Start Depth		0	0	4	0	4	9	0
End Depth		0.5	0.5	5	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.9 U	51.6 J Q	1.3 J Z	9.4 J Q	2	2.8	4.2
Fluoride	mg/kg	2.1 J Q	1.3 J Q	2.7 J Q	1.9 J Q	2.8 J E, Q	3.6 J E, Q	2.4 J Q
Cyanide	mg/kg	0.65 U	0.57 U	0.56 U	0.30 J Z	0.57 U	0.58 U	0.60 U
Aluminum	mg/kg	19200	25000	19500	18300	27300	27300	24800
Iron	mg/kg	25400	28800	24900	20000	27700	28100	28800
Lead	mg/kg	17.2	9.26 J E, *#	5.42 J E, A	17.2 J E, *#	8.14 J E, Q	6.41 J E, Q	9.10 J *#
Lithium	mg/kg	24.9	29.5	25.1	18	27.1	16.9	26.7
Magnesium	mg/kg	5790	8400	5360	4230	5170	4330	7770
Manganese	mg/kg	439	386	213	423	628 J E	175 J E	458
Mercury	mg/kg	0.0977 J Z	0.109 U	0.109 U	0.0202 J Q, Z	0.111 U	0.110 U	0.0249 J Z
Molybdenum	mg/kg	0.778	0.472 J E	1.29	0.596 J E	0.547	0.311	0.672
Nickel	mg/kg	21.5 J Q, *#	17.7 J Q, *#	13.0 J E, A	13.6 J Q, *#	16	9.31	17.3 J *#
Potassium	mg/kg	4750	6380	1930	4360	2580 J Q	2140 J Q	5910 J Q
Silver	mg/kg	0.0695 J Z	0.0243 J Z	0.0734 J Z	0.0384 J Z	0.0579 J Z	0.0280 J Z	0.0269 J Z
Sodium	mg/kg	131	216	448	75.2 J Z	199	183	129
Strontium	mg/kg	30.6	110	28.1	28.9	31.1	32.6	105
Thallium	mg/kg	0.422	0.328 J Q	0.219	0.278 J Q	0.335	0.193	0.282
Tin	mg/kg	12.7 U B	11.3 U B, Z	11.2 U B	11.7 U B, Z	11.4 U B	11.4 U B	12.0 U B
Titanium	mg/kg	1380	1290	1400	1100	1380	1210	1310
Antimony	mg/kg	0.250 UJ Q, E	0.0753 J Q, Z	0.206 J Q, Z	0.130 J Q, Z	0.155 J Q, Z	0.135 J Q, Z	0.136 J Q, Z
Arsenic	mg/kg	6.57	5.51 J Q	6.01 J E	3.52 J Q	5.33	3.95	5.83 J Q
Beryllium	mg/kg	0.866	0.686	0.555 J E	0.611	0.871 J Q	0.673 J Q	0.616
Barium	mg/kg	198 J E, *#	99.8 J *#	104 J E, A	114 J *#	127	78.4	110
Boron	mg/kg	6.37 U F	10.9	4.02 J Z	4.83 J Z	12.3	12.8	6.01 U F, Z
Cadmium	mg/kg	0.390 J Q	0.238 J Q, E	0.0500 J Z	0.225 J Q, E	0.0801 J Z	0.115 U	0.316
Chromium	mg/kg	31.9	30.5 J E, *#	20.3 J E, Q, A	19.5 J E, *#	21.1 J A	21.7 J A	27.7 J *#
Cobalt	mg/kg	11.4 J Q	9.51 J *#	7.45 J E, A	7.20 J *#	16.4	4.23	8.71 J *#
Copper	mg/kg	18.9 J Q	15.5 J Q, *#	10.3 J E, A	12.1 J Q, *#	9.96	8.46	16.1 J *#
Vanadium	mg/kg	59.6	56.4 J *#	55.2 J E, A	35.8 J *#	44.9 J A	42.5 J A	52.2 J Q, *#
Zinc	mg/kg	103	64.9 J *#	46.1 J E, A	58.8 J *#	57	41.7	72.6
Zirconium	mg/kg	3.17 J Z	3.26 J Z	5.16 J Z	2.71 J Z	2.88 J Z	2.62 J Z	3.01 J Z
Calcium	mg/kg	6600	55900	6880 J E	4270	3190 J E	3660 J E	59500
Phosphorus	mg/kg	616	642	225	438	209	161	1020
Selenium	mg/kg	0.490 J Z	0.425 J Z	0.132 J Z	0.182 J Z	0.0560 J Z	0.0621 J Z	0.683
Chromium VI	mg/kg	1.3 U	0.40 J Z	1.1 U	1.2	0.40 J Z	1.0 J Z	1.2 U
Perchlorate (314.0)	ug/kg	38.6 U	34.7 U	17.3 J Z	36.3 U	34.4 U	35.2 U	36.4 U
Perchlorate (6850)	ug/kg	--	--	9.5	--	--	--	--
Percent Moisture	%	22.3	13.5	11.8	17.3	12.9	14.8	17.6
pH	pH unit	7.46	7.77	8.13	6.7	6.87	6.98	8.01

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SS-0.0-0.5	SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0
Sample Date		05/04/2011	04/14/2011	04/18/2011	04/18/2011	05/06/2011	05/09/2011	05/09/2011
SDG		DE143	DE127	DE130	DE130	DE145	DE146	DE146
Start Depth		4	0	0	0	6.5	4	9
End Depth		5	0.5	0.5	0.5	7.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	21.9	5.5 J Q	7.2	--	--	3.8	1.5 J Z
Fluoride	mg/kg	2.1 J Q	1.5 J Q	2.1 J Q	1.5 J Q	1.7	3.8 J Q	2.5 J Q
Cyanide	mg/kg	0.57 U	0.56 U	0.57 U	--	--	0.57 U	0.56 U
Aluminum	mg/kg	23900	19000	17500	24800	22100	22900	22100
Iron	mg/kg	26800	26800	21300	29400	28500	25200	26000
Lead	mg/kg	10.6 J E	26.9 J E, *#	14.4 J *#	10.8 J *#	12.4 J E	5.51 J E, A	6.87 J E, A
Lithium	mg/kg	21.3	19.7	22.5	30.4	28.9	23.1	27.9
Magnesium	mg/kg	5310	3990	4580	8630	7570	4760	4720
Manganese	mg/kg	406	368	379	408	343 J E	320	299
Mercury	mg/kg	0.106 U	0.167 J Q	0.659	0.0106 J Z	0.103 U	0.0042 J Z	0.115 U
Molybdenum	mg/kg	0.665 J E	0.736 J E	0.816	0.477	0.249 J E	0.587	0.618
Nickel	mg/kg	23.6 J E, Q	14.6 J Q, *#	13.4 J *#	19.6 J *#	27.7 J E, Q	12.4 J E, A	17.6 J E, A
Potassium	mg/kg	4060 J Q	3680	4160 J Q	7200 J Q	5020 J E	2690	2170
Silver	mg/kg	0.0473 J Q, Z	0.172	0.127	0.0278 J Z	0.0452 J Q, Z	0.0363 J Z	0.0538 J Z
Sodium	mg/kg	138	80.0 J Z	85.5 J Z	118	200	193	225
Strontium	mg/kg	22.6	19.6	22.5	82.1	114	24.7	23
Thallium	mg/kg	0.374	0.374 J Q	0.276	0.312	0.449 J Q	0.286	0.374
Tin	mg/kg	11.1 U B	11.0 U B, Z	11.4 U B	11.3 U B	11.0 U B, Z	11.2 U B	11.8 U B
Titanium	mg/kg	1300	1020	1180	1390	1380	1280	1400
Antimony	mg/kg	0.170 J Q, E, Z	0.0985 J Q, Z	0.136 J Q, Z	0.205 J Q, Z	0.0924 J Q, E, Z	0.184 J Q, Z	0.212 J Q, Z
Arsenic	mg/kg	6.59 J E	4.77 J Q	4.88 J Q	5.81 J Q	8.18 J E	4.46 J E	6.23 J E
Beryllium	mg/kg	1.01 J E	0.766	0.575	0.682	1.01 J E	0.578 J E	0.754 J E
Barium	mg/kg	149 J E	116 J *#	102	97.2	157 J E	102 J E, A	134 J E, A
Boron	mg/kg	9.44	2.22 J Z	5.72 U F	5.66 U F, Z	12	2.27 J Z	1.49 J Z
Cadmium	mg/kg	0.404 J E, Q	0.289 J Q, E	1.35	0.253	0.387 J Q	0.126	0.0908 J Z
Chromium	mg/kg	32.0 J E, Q	22.9 J E, *#	19.0 J *#	30.2 J *#	38.6 J E, Q	20.1 J E, Q, A	27.6 J E, Q, A
Cobalt	mg/kg	12.9 J E, Q	7.11 J *#	6.61 J *#	9.89 J *#	14.5 J E, Q	6.96 J E, A	9.77 J E, A
Copper	mg/kg	19.6 J E, Q	12.8 J Q, *#	12.6 J *#	17.3 J *#	23.5 J E, Q	9.40 J E, A	11.9 J E, A
Vanadium	mg/kg	61.8 J E	43.8 J *#	35.3 J Q, *#	58.9 J Q, *#	85.1 J E	45.1 J E, A	59.6 J E, A
Zinc	mg/kg	74.0 J E	93.5 J *#	67.5	76.7	95.1 J E	43.2 J E, A	57.2 J E, A
Zirconium	mg/kg	2.28 J Z	5.51 U	1.44 J Z	2.07 J Z	2.00 J Z	5.14 J Z	5.96
Calcium	mg/kg	5750	3220	4370	37300	69700	3200 J E	3520 J E
Phosphorus	mg/kg	276	488	523	700	550	214	161
Selenium	mg/kg	0.167 J Z	0.236 J Z	0.202 J Z	0.323 J Z	0.333 J Z	0.141 J Z	0.107 J Z
Chromium VI	mg/kg	0.40 J Z	0.57 J Z	0.61 J Z	0.45 J Z	1.1 U	0.36 J Z	0.34 J Z
Perchlorate (314.0)	ug/kg	34.4 U	33.4 U	34.6 U	35.3 U	32.9 U	34.6 U	35.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.9	10.2	13.4	15	8.9	13.4	15.2
pH	pH unit	7.79	6.39	7.54	7.98	8.22	6.93	7.53

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-090-SA8N-SS-0.0-0.5	SL-091-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SS-0.0-0.5
Sample Date		05/09/2011	04/14/2011	04/14/2011	04/14/2011	04/19/2011	04/19/2011	04/19/2011
SDG		DE146	DE127	DE127	DE127	DE131	DE131	DE131
Start Depth		3	0	0	0	0	0	0
End Depth		4	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.2 J Z	3.3 J Q	--	--	9.6	5.1	--
Fluoride	mg/kg	1.3 J Q	2.1 J Q	1.2 UJ Q	1.2 J Q	1.1 J Q	1.6 J Q	1.1 J Q
Cyanide	mg/kg	0.56 U	0.59 U	--	--	0.57 U	0.56 U	--
Aluminum	mg/kg	19300	22400	18000	15300	15000	14200	26700
Iron	mg/kg	21800	23900	19200	19000	21100	19700	28100
Lead	mg/kg	6.30 J E, A	11.5 J E, *#	9.93 J E, *#	14.3 J E, *#	12.3	22.1	14.4
Lithium	mg/kg	24.8	20.8	20.4	22.7	24.6	24.3	24.2
Magnesium	mg/kg	4630	5150	3980	4470	4430	4250	5770
Manganese	mg/kg	273	434	333	293	423	414	347
Mercury	mg/kg	0.0056 J Z	0.118 U	0.0185 J Q, Z	0.0235 J Q, Z	0.182	3.77	0.0323 J Z
Molybdenum	mg/kg	0.664	0.573 J E	0.680 J E	0.670 J E	0.632	0.915	0.551
Nickel	mg/kg	14.3 J E, A	16.6 J Q, *#	11.4 J Q, *#	11.4 J Q, *#	12.9 J Q, *#	16.3 J Q, *#	25.8 J Q, *#
Potassium	mg/kg	3010	4170	3500	3230	3910	3440	4330
Silver	mg/kg	0.0304 J Z	0.0491 J Z	0.0293 J Z	0.0488 J Z	0.0490 J Z	0.123	0.0569 J Z
Sodium	mg/kg	91.0 J Z	98.3 J Z	71.7 J Z	73.5 J Z	85.5 J Z	76.2 J Z	84.0 J Z
Strontium	mg/kg	18.2	26.3	21.5	17	22.3	22.4	32.5
Thallium	mg/kg	0.32	0.313 J Q	0.265 J Q	0.345 J Q	0.298	0.334	0.443
Tin	mg/kg	11.2 U B	11.8 U B, Z	11.5 U B, Z	11.6 U B, Z	11.2 U B	11.2 U B	10.7 U B
Titanium	mg/kg	1200	1240	1090	1110	1060	1010	1300
Antimony	mg/kg	0.347 J Q	0.127 J Q, Z	0.0875 J Q, Z	0.136 J Q, Z	0.127 J Q, E, Z	0.0947 J Q, E, Z	0.144 J Q, E, Z
Arsenic	mg/kg	5.76 J E	4.61 J Q	3.60 J Q	3.51 J Q	5.72	5.75	7.05
Beryllium	mg/kg	0.688 J E	0.749	0.589	0.551	0.67	0.72	1.08
Barium	mg/kg	106 J E, A	126 J *#	98.4 J *#	84.0 J *#	129 J E, *#	146 J E, *#	134 J E, *#
Boron	mg/kg	1.78 J Z	4.39 J Z	2.73 J Z	2.16 J Z	5.58 U	5.60 U F	5.34 U F
Cadmium	mg/kg	0.138	0.302 J Q, E	0.189 J Q, E	0.134 J Q, E	0.257 J Q	0.518 J Q	0.355 J Q
Chromium	mg/kg	22.6 J E, Q, A	26.0 J E, *#	17.6 J E, *#	17.5 J E, *#	17.3	20.8	36.4
Cobalt	mg/kg	6.93 J E, A	9.44 J *#	6.31 J *#	5.88 J *#	6.80 J Q	7.76 J Q	13.3 J Q
Copper	mg/kg	11.6 J E, A	14.7 J Q, *#	9.77 J Q, *#	9.14 J Q, *#	11.3 J Q	15.4 J Q	19.7 J Q
Vanadium	mg/kg	51.7 J E, A	48.4 J *#	34.2 J *#	34.7 J *#	35.4	40.2	68.9
Zinc	mg/kg	65.6 J E, A	63.6 J *#	56.9 J *#	61.5 J *#	78.2	94.3	87.8
Zirconium	mg/kg	2.14 J Z	2.36 J Z	5.74 U	5.78 U	1.80 J Z	1.24 J Z	3.61 J Z
Calcium	mg/kg	2270 J E	4200	2470	2620	3180	3980	5120
Phosphorus	mg/kg	450	283	397	476	524	544	276
Selenium	mg/kg	0.342 J Z	0.217 J Z	0.153 J Z	0.155 J Z	0.174 J Z	0.223 J Z	0.202 J Z
Chromium VI	mg/kg	1.1 U	1.2 U	1.2 U	0.54 J Z	1.1 U	1.1 U	0.67 J Z
Perchlorate (314.0)	ug/kg	34.4 U	35.5 U	35.5 U	35.7 U	33.5 U	34.3 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.7	15.6	15.5	16	10.4	12.5	7.3
pH	pH unit	5.39	6.4	6.44	6.28	5.97	6.8	6.79

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-094-SA8N-SB-4.0-5.0	SL-094-SA8N-SB-7.5-8.5	SL-095-SA8N-SS-0.0-0.5	SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SS-0.0-0.5	SL-096-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-9.0-10.0
Sample Date		05/13/2011	05/13/2011	04/19/2011	05/13/2011	04/19/2011	05/13/2011	05/13/2011
SDG		DE150	DE150	DE131	DE150	DE131	DE150	DE150
Start Depth		4	7.5	0	4	0	4	9
End Depth		5	8.5	0.5	5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.5 J Q	1.9 J Q	1.3 J Q	4.4 J Q	1.8 J Q	2.2 J Q	1.2 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28100	20200	20600	30600	23800	31600	15100
Iron	mg/kg	30700	21300	24000	32400	25400	36200	19600
Lead	mg/kg	12.5	7.24	12.5	12	11.6	11.7	5.94
Lithium	mg/kg	22.9	24.8	21.9	25.7	21.8	28.1	20.6
Magnesium	mg/kg	6330	3950	5050	6710	5320	7510	3610
Manganese	mg/kg	434	344	294	415	325	453	380
Mercury	mg/kg	0.119 U	0.109 U	0.0151 J Z	0.0135 J Z	0.0149 J Z	0.114 U	0.0078 J Z
Molybdenum	mg/kg	0.721	0.96	0.545	0.438	0.398	0.48	0.764
Nickel	mg/kg	25.2	12.8	21.2 J Q, *#	24.1	19.9 J Q, *#	26	11.9
Potassium	mg/kg	5620	2880	3510	2590	3990	4290	3460
Silver	mg/kg	0.0479 J Z	0.0560 J Z	0.0523 J Z	0.0440 J Z	0.0370 J Z	0.0746 J Z	0.0401 J Z
Sodium	mg/kg	258	151	77.9 J Z	116	85.0 J Z	122	133
Strontium	mg/kg	38.7	22.2	25.4	45.7	28.1	47	18
Thallium	mg/kg	0.47	0.318	0.396	0.351	0.385	0.406	0.295
Tin	mg/kg	11.5 U B, Z	11.3 U B, Z	11.3 U B	11.3 U B, Z	10.5 U B	11.6 U B, Z	11.4 U B, Z
Titanium	mg/kg	1480	1060	1210	1030	1150	1260	1020
Antimony	mg/kg	0.311	0.0689 J Z	0.0666 J Q, E, Z	0.314	0.119 J Q, E, Z	0.303	0.104 J Z
Arsenic	mg/kg	7.22	5.74	7.49	7.55	5.71	7.05	4.6
Beryllium	mg/kg	1.05	0.873	0.921	1.05	0.89	1.03	0.685
Barium	mg/kg	171	106	163 J E, *#	157	141 J E, *#	185	119
Boron	mg/kg	9.45	5.78	5.66 U F	7.55	5.27 U F	8.72	5.00 J Z
Cadmium	mg/kg	0.419	0.0740 J Z	0.236 J Q	0.236	0.329 J Q	0.313	0.177
Chromium	mg/kg	37.8	17.3	30.1	32.9	29.4	37.3	16.9
Cobalt	mg/kg	13.2	7.43	12.5 J Q	15.2	10.2 J Q	13.5	6.09
Copper	mg/kg	22.1	9.06	16.9 J Q	15.6	15.6 J Q	19.9	10.2
Vanadium	mg/kg	71.1	35	59	58.8	57.1	65.6	33.3
Zinc	mg/kg	82.8	58.3	84.3	61.9	66.6	78.2	68.2
Zirconium	mg/kg	6.54	3.19 J Z	2.88 J Z	6.6	3.50 J Z	7.18	2.65 J Z
Calcium	mg/kg	5730	2010	4640	8840	4700	10100	2200
Phosphorus	mg/kg	272	449	356	125	265	223	502
Selenium	mg/kg	0.248 J Z	0.0988 J Z	0.153 J Z	0.0518 J Z	0.150 J Z	0.157 J Z	0.177 J Z
Chromium VI	mg/kg	0.46 J Z	1.1 U	1.1 U	1.2 U	1.1 U	0.47 J Z	1.2 U
Perchlorate (314.0)	ug/kg	35.9 U	34.0 U	33.9 U	35.0 U	32.2 U	35.6 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.4	11.7	11.6	14.3	6.9	15.8	13.3
pH	pH unit	7.35	6.82	7.07	7.21	6.88	6.57	6.8

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-097-SA8N-SS-0.0-0.5	SL-097-SA8N-SB-4.0-5.0	SL-098-SA8N-SS-0.0-0.5	SL-098-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-9.0-10.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	05/12/2011	04/20/2011	05/12/2011	05/12/2011	05/12/2011	04/20/2011
SDG		DE131	DE149	DE132	DE149	DE149	DE149	DE132
Start Depth		0	4	0	4	9	4	0
End Depth		0.5	5	0.5	5	10	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	3.5	3.3
Fluoride	mg/kg	1.7 J Q	9.5 J Q	2.9	11.0 J Q	2.0 J Q	2.2 J Q	1.9
Cyanide	mg/kg	--	--	--	--	--	0.57 U	0.58 U
Aluminum	mg/kg	26600	21400	22500	30200	14900	21600	21000
Iron	mg/kg	29100	23600	20900	33200	16500	20700	20000
Lead	mg/kg	13.2	7.65 J Q	9.23 J E, A	11.9 J Q	7.01 J Q	8.10 J Q	16.9 J E, A
Lithium	mg/kg	23.7	23.4	21.1	28.1	15.2	20.1	21.2
Magnesium	mg/kg	6160	4960	4440	6920	3020	3660	4130
Manganese	mg/kg	410	321	322 J E	540	130	169	395 J E
Mercury	mg/kg	0.0149 J Z	0.113 U	0.113 U	0.115 U	0.113 U	0.110 U	0.114 U
Molybdenum	mg/kg	0.547	0.422	0.533	0.629	0.596	0.722	0.563
Nickel	mg/kg	23.4 J Q, *#	16.0 J Q	13.1 J E, Q	23.3 J Q	8.52 J Q	12.2 J Q	12.3 J E, Q
Potassium	mg/kg	4630	3140	3210 J E	3420	2130	1790	4030 J E
Silver	mg/kg	0.0580 J Z	0.0246 J Z	0.0280 J Q, Z	0.0538 J Z	0.0306 J Z	0.0401 J Z	0.0376 J Q, Z
Sodium	mg/kg	94.9 J Z	320	101 J Z	521	97.6 J Z	221	86.1 J Z
Strontium	mg/kg	35.4	30.3	28	44.4	18	23.2	25.6
Thallium	mg/kg	0.406	0.365 J Q	0.238	0.354 J Q	0.358 J Q	0.313 J Q	0.236
Tin	mg/kg	11.4 U B	11.4 U B	11.6 U B	11.6 U B	11.2 U B	11.0 U B	11.6 U B
Titanium	mg/kg	1200	1280	1220	1260	986	1070	1210
Antimony	mg/kg	0.222 UJ Q, E	0.259 J E	0.175 J Q, Z	0.272 J E	0.0909 J E, Z	0.126 J E, Z	0.142 J Q, Z
Arsenic	mg/kg	6.61	7.06 J Q	5.04 J E, Q	8.30 J Q	5.41 J Q	5.67 J Q	4.24 J E, Q
Beryllium	mg/kg	0.987	0.808	0.707 J Q	0.984	0.739	0.938	0.631 J Q
Barium	mg/kg	166 J E, *#	101	109 J E	135	97.1	117	105 J E
Boron	mg/kg	5.71 U F	6.59	7.96	9.8	3.34 J Z	4.50 J Z	8.29
Cadmium	mg/kg	0.308 J Q	0.146	0.255 J Q	0.165	0.113 U	0.111 U	0.230 J Q
Chromium	mg/kg	33.8	25.4 J Q, *#	20.8 J E, A	35.9 J Q, *#	16.3 J Q, *#	22.8 J Q, *#	17.8 J E, A
Cobalt	mg/kg	11.8 J Q	9.16	6.68 J E, Q	12	3.94	5.2	6.05 J E, Q
Copper	mg/kg	19.5 J Q	12.3 J Q	10.2 J Q, A	18.8 J Q	7.34 J Q	7.44 J Q	10.4 J Q, A
Vanadium	mg/kg	64.9	50.3 J *#	40.8 J A	67.1 J *#	36.6 J *#	49.7 J *#	33.6 J A
Zinc	mg/kg	85.7	62.9 J *#	76.9 J A	75.4 J *#	52.1 J *#	47.1 J *#	71.8 J A
Zirconium	mg/kg	3.77 J Z	5.55 J Z	0.979 J Z	6.97	2.79 J Z	3.95 J Z	5.78 U
Calcium	mg/kg	5560	10300	5530	13200	1530	2090	3570
Phosphorus	mg/kg	302	244	312 J E	234	160	201	456 J E
Selenium	mg/kg	0.177 J Z	0.0666 J Z	0.139 J Z	0.0905 J Z	0.139 J Z	0.153 J Z	0.127 J Z
Chromium VI	mg/kg	1.2 U	0.32 J Z	0.70 J Z	1.2 U	1.2 U	1.4	1.1 J Z
Perchlorate (314.0)	ug/kg	34.6 U	34.8 U	36.2 U	35.3 U	35.0 U	34.4 U	35.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.3	13.8	17.1	14.9	14.4	12.7	14.3
pH	pH unit	6.89	7.83	7.16	8	6.94	7.21	7.32

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-101-SA8N-SB-4.0-5.0	SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-104-SA8N-SB-9.0-10.0	SL-105-SA8N-SB-4.0-5.0
Sample Date		05/12/2011	05/12/2011	04/20/2011	05/12/2011	05/13/2011	05/13/2011	05/10/2011
SDG		DE149	DE149	DE132	DE149	DE150	DE150	DE147
Start Depth		4	7	0	3	4	9	4
End Depth		5	8	0.5	4	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	1.9	1.3 J Z	4	1.2 J Z	--	--	1.5 J Z
Fluoride	mg/kg	1.5 J Q	1.4 J Q	1.7	1.2 UJ Q	2.3 J Q	3.6 J Q	3.1
Cyanide	mg/kg	0.59 U	0.57 U	0.58 U	0.58 U	--	--	0.59 U
Aluminum	mg/kg	19300	16000	18800	29100	20800	27200	28200
Iron	mg/kg	22500	18100	18500	31700	21800	22600	30300
Lead	mg/kg	9.51 J Q	5.09 J Q	17.2 J E, A	7.23 J Q	6.86	6.17	10.6 J Q
Lithium	mg/kg	18.8	15.7	19.6	30.2	24.9	17.7	22.2
Magnesium	mg/kg	3720	2990	3890	4860	4090	3320	6050
Manganese	mg/kg	241	137	258 J E	233	314	116	496
Mercury	mg/kg	0.115 U	0.113 U	0.0058 J Q, Z	0.116 U	0.112 U	0.115 U	0.112 U
Molybdenum	mg/kg	0.849	0.507	0.553	0.887	0.639	0.388	1.08
Nickel	mg/kg	13.3 J Q	5.61 J Q	14.6 J E, Q	10.0 J Q	13.9	6.29	22.8 J Q
Potassium	mg/kg	2530	1590	3010 J E	3730	2600	1990	5290
Silver	mg/kg	0.0352 J Z	0.0167 J Z	0.0460 J Q, Z	0.118 U	0.0509 J Z	0.0203 J Z	0.0409 J Z
Sodium	mg/kg	86.3 J Z	85.5 J Z	85.9 J Z	90.2 J Z	381	224	151
Strontium	mg/kg	21.5	18.6	20.3	10.3	26.8	24.9	36.1
Thallium	mg/kg	0.300 J Q	0.208 J Q	0.317	0.261 J Q	0.291	0.233	0.453 J Q
Tin	mg/kg	11.6 U B	11.7 U B	11.5 U B	11.8 U B	11.3 U B, Z	11.5 U B, Z	11.8 U B
Titanium	mg/kg	1170	1070	1100	1400	1220	1220	1440
Antimony	mg/kg	0.257 J E	0.229 UJ E	0.224 J Q, Z	0.109 J E, Z	0.141 J Z	0.237 U	0.474 J E
Arsenic	mg/kg	6.45 J Q	4.00 J Q	4.94 J E, Q	5.42 J Q	4.25	3.16	6.42 J Q
Beryllium	mg/kg	0.871	0.548	0.794 J Q	0.782	0.783	0.503	1.02
Barium	mg/kg	128	53.3	110 J E	83	123	49.6	155
Boron	mg/kg	5.27 J Z	3.05 J Z	5.46 J Z	6.39	6.32	4.77 J Z	5.91 U F, Z
Cadmium	mg/kg	0.117	0.114 U	0.469 J Q	0.118 U	0.0892 J Z	0.118 U	0.362
Chromium	mg/kg	22.3 J Q, *#	12.5 J Q, *#	21.7 J E, A	18.6 J Q, *#	19.9	18	35.6 J Q, A
Cobalt	mg/kg	7.68	3.3	7.38 J E, Q	4.86	7.21	2.75	11.9
Copper	mg/kg	13.4 J Q	4.96 J Q	12.5 J Q, A	6.05 J Q	8.5	5.35	21.2 J Q
Vanadium	mg/kg	45.9 J *#	29.6 J *#	41.9 J A	41.5 J *#	39.8	30	65.4 J A
Zinc	mg/kg	58.5 J *#	37.9 J *#	115 J A	65.2 J *#	62.6	39.4	79.8 J A
Zirconium	mg/kg	4.38 J Z	3.23 J Z	5.73 U	4.29 J Z	4.38 J Z	4.51 J Z	6.7
Calcium	mg/kg	2420	1670	2950	1080	2550	2100	5230
Phosphorus	mg/kg	247	125	372 J E	629	433	163	210
Selenium	mg/kg	0.118 J Z	0.0605 J Z	0.145 J Z	0.493	0.0680 J Z	0.0526 J Z	0.273 J Z
Chromium VI	mg/kg	1.2 U	1.2 U	0.50 J Z	0.64 J Z	0.38 J Z	0.37 J Z	1.2 U
Perchlorate (314.0)	ug/kg	35.6 U	35.3 U	34.7 U	35.7 U	34.2 U	35.5 U	35.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	15.8	15.1	13.6	15.9	12.4	15.5	15.4
pH	pH unit	6.65	6.83	6.86	5.48	7.59	7.31	6.96

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0	SL-112-SA8N-SS-0.0-0.5
Sample Date		06/08/2011	04/20/2011	06/08/2011	06/08/2011	04/21/2011	06/10/2011	04/21/2011
SDG		DE176	DE132	DE176	DE176	DE134	DE178	DE134
Start Depth		2.5	0	4	9	0	3	0
End Depth		3.5	0.5	5	10	0.5	4	0.5
Chemical Name	Unit							
Nitrate	mg/kg	3.9 J Q	3	1.3 J Q, Z	1.3 J Q, Z	1.9	1.5 J Z	2.9
Fluoride	mg/kg	5.1 J Q	1.7	3.1 J Q	6.0 J Q	1.5 J Q	1.7 J Q	2.1 J Q
Cyanide	mg/kg	0.57 U	0.50 U	0.56 U	0.58 U	0.56 U	0.54 U	0.57 U
Aluminum	mg/kg	24200	13100	18600	20700	19500	14800 J E	18500
Iron	mg/kg	29100	20500	25100	27500	25000	18300	20900
Lead	mg/kg	7.72 J E, Q	57.6 J A	7.63 J E, Q	11.2 J E, Q	17.8 J Q	5.90 J Q, A	8.26 J Q
Lithium	mg/kg	21.6	13.6	22.3	24.6	27.9	19.5	23.7
Magnesium	mg/kg	4550	4810	5110	5620	4690	3370	4130
Manganese	mg/kg	137 J E	259 J E	276 J E	298 J E	448	115 J E	343
Mercury	mg/kg	0.115 U	0.0294 J Q, Z	0.114 U	0.114 U	0.0178 J Z	0.0125 J Z	0.0066 J Z
Molybdenum	mg/kg	0.436 J Q	2.4	0.409 J Q	0.476 J Q	0.505	0.485	0.52
Nickel	mg/kg	12.0 J Q	23.7 J A	19.3 J Q	21.8 J Q	13.9	8.58 J Q	15.1
Potassium	mg/kg	1590	3040 J E	3180	3190	4990 J Q	1960 J Q	4220 J Q
Silver	mg/kg	0.0210 J Q, Z	0.11	0.0258 J Q, Z	0.0633 J Q, Z	0.0394 J Z	0.0400 J Z	0.0473 J Z
Sodium	mg/kg	268	266	85.2 J Z	185	80.4 J Z	81.9 J Z	73.1 J Z
Strontium	mg/kg	30.4	30.8	24.1	32.6	25	18.7	25.4
Thallium	mg/kg	0.288 J Q	0.204	0.336 J Q	0.386 J Q	0.308	0.222	0.369
Tin	mg/kg	11.2 U B	10.1 U B	11.5 U B	11.4 U B	11.1 U B	10.7 U B	11.1 U B
Titanium	mg/kg	1120	1030	1260	1360	1160	873	1010
Antimony	mg/kg	0.177 J Q, Z	1.15 J Q	0.214 J Q, Z	0.216 J Q, Z	0.225 UJ B, Q	0.141 J Z	0.221 UJ B, Q
Arsenic	mg/kg	5.72 J E	3.3	7.38 J E	9.47 J E	4.26	3.69 J Q	4.73
Beryllium	mg/kg	0.690 J Q	0.331 J Q	0.765 J Q	0.870 J Q	0.629	0.522 J Q	0.715
Barium	mg/kg	86.3	126 J A	96.9	127	127	75.2	133
Boron	mg/kg	4.39 J Z	6.71	5.38 J Z	5.53 J Z	5.62	5.37 U B	5.43 J Z
Cadmium	mg/kg	0.0653 J Q, Z	1.47	0.161 J Q	0.175 J Q	0.375	0.0584 J Z	0.289
Chromium	mg/kg	21.6 J Q, A	24.7 J A	23.3 J Q, A	26.1 J Q, A	21.0 J Q, A	16.9 J Q	23.9 J Q, A
Cobalt	mg/kg	5.25 J Q	6.91 J A	8.83 J Q	10.7 J Q	7.22	3.72	7.59
Copper	mg/kg	10.5 J Q, A	29.2 J A	14.5 J Q, A	16.3 J Q, A	12.2 J A	6.05 J Q	12.4 J A
Vanadium	mg/kg	36.0 J Q, A	40.4 J A	45.3 J Q, A	50.8 J Q, A	33.8 J A	31.2	37.3 J A
Zinc	mg/kg	58.9	649 J A	75.5	92.4	101	41.4 J Q, A	88.8
Zirconium	mg/kg	2.94 J Z	5.06 U	3.42 J Z	3.38 J Z	5.53 U	1.55 J Z	5.54 U
Calcium	mg/kg	3750	4860	4210	7420	3460	2090	3430
Phosphorus	mg/kg	126	813 J E	342	356	614	250 J Q	447
Selenium	mg/kg	0.462 U	0.279 J Q, Z	0.459 U	0.445 U	0.144 J Z	0.175 J Z	0.226 J Z
Chromium VI	mg/kg	0.73 J Z	1	0.54 J Z	0.77 J Z	1.1 U	0.62 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.6 U	30.3 U	34.4 U	34.7 U	33.8 U	32.9 U	34.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.6 U	--	--
Percent Moisture	%	13.4	1.1	12.8	13.5	11.3	8.7	12.3
pH	pH unit	7.62	6.61	8.1	8.57	7.35	5.63	6.76

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5	SL-120-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	06/09/2011	04/21/2011	04/21/2011	04/21/2011	04/20/2011
SDG		DE134	DE134	DE177	DE134	DE134	DE134	DE132
Start Depth		0	0	4	0	0	0	0
End Depth		0.5	0.5	5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	3.5	11.3	1.7	1.6	2.5	1.5 J Z	3.6
Fluoride	mg/kg	1.1 UJ Q	1.8 J Q	1.8	1.4 J Q	1.3 J Q	1.4 J Q	1.6
Cyanide	mg/kg	0.21 J Z	0.40 J Z	0.54 U	0.52 U	0.58 U	0.53 U	0.53 U
Aluminum	mg/kg	14500	12100	17400 J E	16600	15800	15200	24500
Iron	mg/kg	19500	17700	22400	23700	23300	22400	26600
Lead	mg/kg	19.2 J Q	19.6 J Q	12.5 J Q, A	11.5 J Q	12.9 J Q	7.08 J Q	20.4 J E, A
Lithium	mg/kg	20.4	18	26.4	24.3	27.3	27.5	26.1
Magnesium	mg/kg	4030	4590	5620	5480	5680	6160	6290
Manganese	mg/kg	260	288	212 J E	295	306	311	371 J E
Mercury	mg/kg	0.0172 J Z	0.0755 J Z	0.113 U	0.0181 J Z	0.0315 J Z	0.0190 J Z	0.0277 J FD, Q, Z
Molybdenum	mg/kg	0.377	0.365	0.639	0.454	0.424	0.452	0.603
Nickel	mg/kg	11.8	11.9	16.8 J Q	15.5	15.1	13.9	18.3 J E, Q
Potassium	mg/kg	3710 J Q	2690 J Q	3240 J Q	4030 J Q	3630 J Q	3760 J Q	4980 J E
Silver	mg/kg	0.264	0.0525 J Z	0.0783 J Z	0.0795 J Z	0.0411 J Z	0.0481 J Z	0.0736 J Q, Z
Sodium	mg/kg	80.0 J Z	104 J Z	101 J Z	85.3 J Z	119	89.8 J Z	120
Strontium	mg/kg	22.6	23	20.6	19.5	26.4	16.8	32.7
Thallium	mg/kg	0.212	0.211	0.345	0.295	0.257	0.266	0.324
Tin	mg/kg	10.9 U B	12.0 U B	11.3 U B	10.5 U B	11.6 U B	10.5 U B	10.2 U B
Titanium	mg/kg	958	948	1140	1190	1070	1220	1270
Antimony	mg/kg	0.222 UJ B, Q	0.238 UJ B, Q	0.112 J Z	0.201 UJ B, Q	0.233 UJ B, Q	0.209 UJ B, Q	0.308 J Q
Arsenic	mg/kg	3.95	3.29	5.22 J Q	5.01	4.83	5.13	6.25 J E, Q
Beryllium	mg/kg	0.485	0.423	0.690 J Q	0.61	0.611	0.519	0.758 J Q
Barium	mg/kg	81.8	92.7	109	113	104	95.2	129 J E
Boron	mg/kg	5.06 J Z	5.32 J Z	5.65 U B	4.32 J Z	6.52	3.66 J Z	9.27
Cadmium	mg/kg	0.322	0.474	0.213	0.24	0.276	0.128	0.466 J Q
Chromium	mg/kg	19.0 J Q, A	15.5 J Q, A	25.4 J Q	25.8 J Q, A	21.0 J Q, A	23.5 J Q, A	28.3 J E, A
Cobalt	mg/kg	5.45	5.05	7.31	8.05	6.74	6.61	9.63 J E, Q
Copper	mg/kg	10.1 J A	10.6 J A	14.3 J Q	12.9 J A	12.0 J A	10.1 J A	17.8 J Q, A
Vanadium	mg/kg	29.7 J A	29.5 J A	48.3	41.6 J A	40.6 J A	39.4 J A	50.4 J A
Zinc	mg/kg	81.8	133	78.5 J Q, A	177	121	61.1	121 J A
Zirconium	mg/kg	5.45 U	6.02 U	2.73 J Z	5.26 U	5.82 U	5.24 U	5.12 U
Calcium	mg/kg	4330	4910	3400	3740	5080	3370	6510
Phosphorus	mg/kg	408	623	490 J Q	529	525	485	467 J E
Selenium	mg/kg	0.0910 J Z	0.150 J Z	0.144 J Z	0.144 J Z	0.176 J Z	0.171 J Z	0.165 J Z
Chromium VI	mg/kg	0.37 J Q, Z	1.4 J Q	0.43 J Z	1.1 U	1.2 U	0.43 J FD, Q, Z	0.89 J Z
Perchlorate (314.0)	ug/kg	33.7 U	36.1 U	34.6 U	31.6 U	35.3 U	32.1 U	31.9 U
Perchlorate (6850)	ug/kg	5.6 U	6.0 U	--	--	5.9 U	--	--
Percent Moisture	%	11	16.9	13.3	5	14.9	6.4	6.1
pH	pH unit	8.27	7.07	6.59	6.99	7.89	6.83	7.8

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

Sample Name		SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5	SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5
Sample Date		05/11/2011	05/11/2011	04/19/2011	06/07/2011	04/21/2011	04/21/2011	04/20/2011
SDG		DE148	DE148	DE131	DE175	DE134	DE134	DE132
Start Depth		4	9	0	2	0	0	0
End Depth		5	10	0.5	3	0.5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.3 J Z	2.4	2.6	2.8	5.2	3.1	--
Fluoride	mg/kg	3	5.8	1.0 UJ Q	1.6 J Q	2.0 J Q	1.9 J Q	1.1 U
Cyanide	mg/kg	0.54 U	0.58 U	0.51 U	0.53 U	0.24 J Z	0.21 J Z	--
Aluminum	mg/kg	15800	21100	12100	12700	15100	13200	17300
Iron	mg/kg	21800	24800	20000	21000	20800	20700	19000
Lead	mg/kg	14.1 J E	7.47 J E	13.1	9.15 J Q	17.0 J Q	23.0 J Q	16.8 J E, A
Lithium	mg/kg	18.9	24.6	27.7	29.6	22.4	24.9	21.5
Magnesium	mg/kg	4470	5010	4790	4770	4010	5360	4400
Manganese	mg/kg	254	300	353	298 J E	481	294	344 J E
Mercury	mg/kg	0.108 U	0.110 U	0.0209 J Z	0.0070 J Z	0.0288 J Z	0.0347 J Z	0.0188 J Q, Z
Molybdenum	mg/kg	0.568	0.33	0.364	0.426 J Q	0.677	0.658	0.802
Nickel	mg/kg	14.0 J Q	12.1 J Q	12.7 J Q, *#	15.3 J Q, E	12.9	16.5	14.0 J E, Q
Potassium	mg/kg	2310 J Q	2480 J Q	3960	3520 J Q	3640 J Q	3850 J Q	3750 J E
Silver	mg/kg	0.0374 J Q, Z	0.0466 J Q, Z	0.0520 J Z	0.0650 J Q, Z	0.0510 J Z	0.0760 J Z	0.0470 J Q, Z
Sodium	mg/kg	84.4 J Z	281	65.8 J Z	61.0 J Z	88.0 J Z	74.1 J Z	114
Strontium	mg/kg	27.7	31.9	18.4	14.1	26.4	19	22.6
Thallium	mg/kg	0.299 J Q	0.238 J Q	0.255	0.336 J Q	0.266	0.293	0.312
Tin	mg/kg	10.8 U B	11.2 U B	10.2 U B	10.4 U B	11.9 U B	11.1 U B	10.5 U B
Titanium	mg/kg	986	1090	1180	1290	937	1010	1220
Antimony	mg/kg	0.185 J Q, E, Z	0.127 J Q, E, Z	0.0862 J Q, E, Z	0.0967 J Q, Z	0.238 UJ B, Q	0.216 UJ B, Q	0.206 J Q, Z
Arsenic	mg/kg	4.45 J Q	5.32 J Q	4.72	6.03 J Q, E	3.84	5.17	4.64 J E, Q
Beryllium	mg/kg	0.630 J Q	0.630 J Q	0.544	0.655 J Q	0.543	0.583	0.638 J Q
Barium	mg/kg	120	94.3	113 J E, *#	121	111	117	108 J E
Boron	mg/kg	13.3	18.2	5.12 U F	6.37	5.34 J Z	5.02 J Z	6.44
Cadmium	mg/kg	0.251 J Q	0.0959 J Q, Z	0.310 J Q	0.191 J Q	0.281	0.253	0.301 J Q
Chromium	mg/kg	20.5 J Q	19.4 J Q	16.5	18.9 J Q, A	19.0 J Q, A	26.6 J Q, A	19.4 J E, A
Cobalt	mg/kg	7.36 J Q	6.22 J Q	6.73 J Q	7.05 J E, Q	9.11	7.3	7.15 J E, Q
Copper	mg/kg	12.5 J Q	9.29 J Q	11.0 J Q	10.4 J Q	11.5 J A	13.8 J A	11.8 J Q, A
Vanadium	mg/kg	36.7 J Q	38.0 J Q	32.8	37.6 J E, A	32.1 J A	44.9 J A	36.7 J A
Zinc	mg/kg	63.4	46.3	82.7	97.7	86.1	90.6	103 J A
Zirconium	mg/kg	1.06 J Z	2.15 J Z	2.53 J Z	2.16 J Z	5.95 U	5.55 U	5.25 U
Calcium	mg/kg	3940 J E	4710 J E	3860	2890 J E	3800	4080	3240
Phosphorus	mg/kg	277 J Q, E	227 J Q, E	621	552	551	609	407 J E
Selenium	mg/kg	0.160 J Z	0.113 J Z	0.147 J Z	0.159 J Z	0.226 J Z	0.244 J Z	0.186 J Z
Chromium VI	mg/kg	0.33 J Z	0.42 J Z	1.0 U	1.1 U	1.2 U	1.1 U	0.57 J Z
Perchlorate (314.0)	ug/kg	32.6 U	34.6 U	31.3 U	32.3 U	36.8 U	33.3 U	32.2 U
Perchlorate (6850)	ug/kg	3.1 J Z	--	--	--	6.1 U	--	--
Percent Moisture	%	8	13.2	4.3	7.1	18.4	9.9	6.7
pH	pH unit	7.6	7.9	7.07	7.11	6.39	6.95	5.78

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5	SL-129-SA8N-SB-4.0-5.0	SL-130-SA8N-SS-0.0-0.5	SL-131-SA8N-SS-0.0-0.5
Sample Date		05/10/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/14/2011	04/12/2011
SDG		DE147	DE132	DE147	DE132	DE147	DE127	DE125
Start Depth		4	0	2.5	0	4	0	0
End Depth		5	0.5	3.5	0.5	5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.2	1.3	3.6	3.7	1.5	1.9 J Q	1.5
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28800	17500	27200	19700	21500	27800	26100
Iron	mg/kg	34900	19700	26800	21500	25300	31300	28600
Lead	mg/kg	8.35 J Q	17.7 J E, A	7.39 J Q	9.59 J E, A	6.50 J Q	14.0 J E, *#	17.7 J *#
Lithium	mg/kg	31.1	20.8	28.1	23.2	28.1	27.2	24
Magnesium	mg/kg	6520	4260	5180	4810	5270	7400	7110
Manganese	mg/kg	459	378 J E	234	335 J E	229	444	452 J *#
Mercury	mg/kg	0.112 U	0.0148 J Q, Z	0.107 U	0.0049 J Q, Z	0.108 U	0.139 J Q	0.0326 J Z
Molybdenum	mg/kg	0.303	0.805	0.481	0.505	0.393	0.837 J E	0.889
Nickel	mg/kg	19.3 J Q	19.8 J E, Q	16.5 J Q	14.7 J E, Q	17.4 J Q	20.1 J Q, *#	17.4 J *#
Potassium	mg/kg	3230	3140 J E	2980	3590 J E	2240	6490	5830
Silver	mg/kg	0.0561 J Z	0.0511 J Q, Z	0.0743 J Z	0.0305 J Q, Z	0.0451 J Z	0.0500 J Z	0.0658 J Z
Sodium	mg/kg	187	107 J Z	138	114	166	108 J Z	93.2 J Z
Strontium	mg/kg	43.2	21.7	29.3	20.6	26.1	35.1	31.7 J *#
Thallium	mg/kg	0.323 J Q	0.366	0.294 J Q	0.308	0.370 J Q	0.327 J Q	0.334
Tin	mg/kg	10.9 U B	11.7 U B	10.9 U B	10.7 U B	11.1 U B	11.6 U B, Z	11.3 U B
Titanium	mg/kg	1110	1350	1280	1300	1330	1440	1320
Antimony	mg/kg	0.221 J E	0.109 J Q, Z	0.214 J E, Z	0.129 J Q, Z	0.186 J E, Z	0.0973 J Q, Z	0.155 J Q, E, Z
Arsenic	mg/kg	5.46 J Q	5.97 J E, Q	5.49 J Q	5.47 J E, Q	5.51 J Q	5.19 J Q	5.95 J Q
Beryllium	mg/kg	0.861	0.845 J Q	0.855	0.713 J Q	0.805	0.771	0.76
Barium	mg/kg	175	153 J E	131	119 J E	126	130 J *#	135
Boron	mg/kg	5.45 U F, Z	6.19	5.45 U F, Z	6.07	5.53 U F	7.19	16.7
Cadmium	mg/kg	0.249	0.350 J Q	0.118	0.189 J Q	0.0695 J Z	0.393 J Q, E	0.421
Chromium	mg/kg	28.1 J Q, A	27.0 J E, A	26.4 J Q, A	21.0 J E, A	28.2 J Q, A	31.8 J E, *#	29.6 J *#
Cobalt	mg/kg	10.1	9.50 J E, Q	7.98	7.43 J E, Q	7.76	10.2 J *#	11
Copper	mg/kg	13.6 J Q	14.9 J Q, A	9.81 J Q	11.6 J Q, A	11.3 J Q	17.5 J Q, *#	16.1 J *#
Vanadium	mg/kg	49.6 J A	48.5 J A	50.6 J A	41.1 J A	52.5 J A	58.9 J *#	52.8 J *#
Zinc	mg/kg	66.0 J A	109 J A	59.8 J A	74.2 J A	58.0 J A	84.5 J *#	90.8 J *#
Zirconium	mg/kg	5.77	5.83 U	5.19 J Z	5.35 U	4.89 J Z	4.15 J Z	2.98 J Z
Calcium	mg/kg	5670	2980	3750	3300	4050	7390	7320
Phosphorus	mg/kg	177	278 J E	259	281 J E	208	571	501
Selenium	mg/kg	0.135 J Z	0.167 J Z	0.143 J Z	0.149 J Z	0.0572 J Z	0.273 J Z	0.221 J Z
Chromium VI	mg/kg	0.46 J Z	0.43 J Z	0.45 J Z	0.44 J Z	1.1 U	0.72 J Z	0.44 J Z
Perchlorate (314.0)	ug/kg	33.7 U	36.1 U	32.7 U	32.4 U	33.5 U	35.2 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.9	16.8	8.2	7.5	10.5	14.7	13.3
pH	pH unit	6.93	6	7.1	7.54	6.84	6.48	7.75

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5	SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0
Sample Date		04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011	04/19/2011	05/09/2011
SDG		DE130	DE127	DE174	DE175	DE127	DE131	DE146
Start Depth		0	0	4	7	0	0	2
End Depth		0.5	0.5	5	8	0.5	0.5	3
Chemical Name	Unit							
Nitrate	mg/kg	1.6	9.0 J FD, Q	1.5 J Z	1.4 J Z	4.7	2	2.8
Fluoride	mg/kg	2.5 J Q	2.8 J Q	3.5 J E, Q	3.4 J Q	1.9 J Q	1.4 J Q	1.5 J Q
Cyanide	mg/kg	0.53 U	0.59 U	0.58 U	0.57 U	0.54 U	0.53 U	0.54 U
Aluminum	mg/kg	23700	23000	34100	21100	21500	12000	14700
Iron	mg/kg	29500	27400	35900	25300	24600	16300	20600
Lead	mg/kg	8.70 J *#	166 J E, *#	9.15 J E, Q	10.0 J Q	11.9 J E, *#	8.62	8.31 J E, A
Lithium	mg/kg	21.9	22.8	26.3	21.1	24.8	16.8	20
Magnesium	mg/kg	7170	6190	8130	4640	5710	3470	4390
Manganese	mg/kg	455	418	685 J E	254 J E	369	236	290
Mercury	mg/kg	0.0896 J Z	0.313 J Q	0.0159 J Z	0.0108 J Z	0.0527 J Q, Z	0.0158 J Z	0.110 U
Molybdenum	mg/kg	0.678	0.901 J E	0.261	0.238 J Q	0.462 J E	0.476	0.606
Nickel	mg/kg	15.6 J *#	44.8 J Q, *#	22.6	15.4 J Q, E	17.3 J Q, *#	11.4 J Q, *#	10.7 J E, A
Potassium	mg/kg	5620 J Q	5220	2780 J Q	1960 J Q	4430	2810	3120
Silver	mg/kg	0.0462 J Z	0.289	0.0337 J Z	0.130 J Q	0.0573 J Z	0.0146 J Z	0.110 U
Sodium	mg/kg	172	108 J Z	201	135	90.6 J Z	65.0 J Z	78.7 J Z
Strontium	mg/kg	39	27.6	41.5	26.7	23	18.7	13.9
Thallium	mg/kg	0.311	0.253 J Q	0.281	0.346 J Q	0.274 J Q	0.259	0.336
Tin	mg/kg	10.8 U B	11.6 U B, Z	11.3 U B	11.3 U B	10.8 U B, Z	10.6 U B	11.0 U B
Titanium	mg/kg	1480	1280	1560	1240	1260	956	1230
Antimony	mg/kg	0.255 J Q	0.117 J Q, Z	0.209 J Q, Z	0.198 J Q, Z	0.294 J Q	0.0727 J Q, E, Z	0.100 J Q, Z
Arsenic	mg/kg	5.17 J Q	5.37 J Q	6.77	7.56 J Q, E	5.08 J Q	4.4	5.36 J E
Beryllium	mg/kg	0.677	0.697	0.835 J Q	0.873 J Q	0.707	0.615	0.698 J E
Barium	mg/kg	213	132 J *#	142	109	119 J *#	94.4 J E, *#	106 J E, A
Boron	mg/kg	5.40 U F	6.92	20.2	8.57	4.17 J Z	5.31 U F	5.48 U
Cadmium	mg/kg	0.244	0.559 J Q, E	0.106 J Z	0.0793 J Q, Z	0.278 J Q, E	0.128 J Q	0.157
Chromium	mg/kg	24.8 J *#	57.1 J E, *#	32.9 J A	21.6 J Q, A	27.7 J E, *#	17.8	19.3 J E, Q, A
Cobalt	mg/kg	9.31 J *#	9.52 J *#	9.09	6.64 J E, Q	8.27 J *#	6.21 J Q	8.68 J E, A
Copper	mg/kg	16.2 J *#	20.3 J Q, *#	15.4	10.6 J Q	14.1 J Q, *#	8.84 J Q	8.60 J E, A
Vanadium	mg/kg	48.2 J Q, *#	48.4 J *#	63.7 J A	45.9 J E, A	49.1 J *#	35.6	45.1 J E, A
Zinc	mg/kg	99.2	211 J *#	67.1	66	72.4 J *#	57.6	65.3 J E, A
Zirconium	mg/kg	3.97 J Z	4.34 J Z	4.96 J Z	2.76 J Z	3.52 J Z	1.61 J Z	3.29 J Z
Calcium	mg/kg	13700	7990	10200 J E	5510 J E	4930	2350	2580 J E
Phosphorus	mg/kg	1080	561	277	177	456	304	346
Selenium	mg/kg	0.397 J Z	0.169 J Z	0.0498 J Z	0.0507 J Z	0.166 J Z	0.184 J Z	0.135 J Z
Chromium VI	mg/kg	1.1 U	0.67 J Z	0.39 J Z	0.33 J Z	0.68 J Z	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	32.8 U	35.1 U	35.3 U	34.6 U	34.1 U	32.8 U	33.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	8.4	14.6	15.1	13.3	12.1	8.6	9.6
pH	pH unit	7.9	7.2	8.28	8.09	7.21	7.02	6.24

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-136-SA8N-SS-0.0-0.5	SL-136-SA8N-SB-4.0-5.0	SL-136-SA8N-SB-9.0-10.0	SL-137-SA8N-SS-0.0-0.5	SL-137-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-9.0-10.0	SL-139-SA8N-SS-0.0-0.5
Sample Date		04/20/2011	05/11/2011	05/11/2011	04/20/2011	05/10/2011	05/10/2011	04/19/2011
SDG		DE132	DE148	DE148	DE132	DE147	DE147	DE131
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	2
Fluoride	mg/kg	2.3	1.7	2.7	1.5	7.2	3.3	1.0 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	0.51 U
Aluminum	mg/kg	22000	9400	13600	13400	20400	19100	12200
Iron	mg/kg	26100	18600	20100	20400	24100	27400	18900
Lead	mg/kg	8.98 J E, A	10.8 J E	6.93 J E	29.7 J E, A	6.66 J Q	12.6 J Q	10.9
Lithium	mg/kg	28.9	31.8	19.3	19.8	25.9	26.9	25.5
Magnesium	mg/kg	5960	4450	3920	4710	4660	5600	4150
Manganese	mg/kg	302 J E	270	263	270 J E	195	315	295
Mercury	mg/kg	0.0093 J Q, Z	0.105 U	0.0973 U	0.267 J Q	0.108 U	0.108 U	0.0089 J Z
Molybdenum	mg/kg	0.385	0.246	0.762	0.586	0.472	0.759	0.548
Nickel	mg/kg	17.1 J E, Q	5.73 J Q	11.1 J Q	14.3 J E, Q	14.9 J Q	15.9 J Q	12.1 J Q, *#
Potassium	mg/kg	2540 J E	3240 J Q	1940 J Q	3350 J E	1920	3040	3480
Silver	mg/kg	0.0360 J Q, Z	0.107 U	0.0435 J Q, Z	0.0667 J Q, Z	0.0508 J Z	0.0428 J Z	0.0434 J Z
Sodium	mg/kg	108 J Z	89.1 J Z	213	140	83.1 J Z	305	70.2 J Z
Strontium	mg/kg	28.4	12.4	19.1	23	27.4	28.1	15
Thallium	mg/kg	0.363	0.220 J Q	0.310 J Q	0.24	0.337 J Q	0.335 J Q	0.281
Tin	mg/kg	11.5 U B	10.6 U B	10.4 U B	10.0 U B	10.9 U B	11.0 U B	10.3 U B
Titanium	mg/kg	1360	1040	1040	1150	1140	1260	1080
Antimony	mg/kg	0.108 J Q, Z	0.215 UJ Q, E	0.129 J Q, E, Z	0.105 J Q, Z	0.165 J E, Z	0.664 J E	0.206 UJ Q, E
Arsenic	mg/kg	6.93 J E, Q	2.54 J Q	5.84 J Q	4.70 J E, Q	6.39 J Q	6.40 J Q	4.93
Beryllium	mg/kg	0.826 J Q	0.321 J Q	0.767 J Q	0.489 J Q	0.831	0.841	0.571
Barium	mg/kg	124 J E	60.6	90.3	95.1 J E	120	127	109 J E, *#
Boron	mg/kg	5.67 J Z	9.97	11.3	6.46	5.43 U F	5.51 U F, Z	5.14 U
Cadmium	mg/kg	0.119 J Q	0.0808 J Q, Z	0.0588 J Q, Z	0.362 J Q	0.0857 J Z	0.264	0.239 J Q
Chromium	mg/kg	25.2 J E, A	8.73 J Q	18.4 J Q	21.3 J E, A	25.6 J Q, A	26.1 J Q, A	16.6
Cobalt	mg/kg	8.15 J E, Q	3.65 J Q	8.03 J Q	6.95 J E, Q	7.29	8.05	6.51 J Q
Copper	mg/kg	14.8 J Q, A	3.91 J Q	6.72 J Q	12.2 J Q, A	12.0 J Q	16.6 J Q	9.55 J Q
Vanadium	mg/kg	45.1 J A	21.1 J Q	40.5 J Q	37.5 J A	47.0 J A	47.5 J A	33.9
Zinc	mg/kg	65.7 J A	53.7	46.8	84.5 J A	61.8 J A	69.3 J A	72.2
Zirconium	mg/kg	5.76 U	5.31 U	0.930 J Z	5.01 U	3.46 J Z	4.25 J Z	1.50 J Z
Calcium	mg/kg	4190	5730 J E	1690 J E	6340	3400	3400	2380
Phosphorus	mg/kg	345 J E	342 J Q, E	163 J Q, E	503 J E	165	339	464
Selenium	mg/kg	0.143 J Z	0.133 J Z	0.144 J Z	0.106 J Z	0.0827 J Z	0.200 J Z	0.106 J Z
Chromium VI	mg/kg	1.2 U	1.1 U	1.0 U	1.0 U	1.1 U	1.1 U	1.0 U
Perchlorate (314.0)	ug/kg	35.9 U	32.2 U	31.3 U	31.3 U	33.3 U	34.4 U	31.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.5	6.8	4.2	4.1	9.8	12.7	4.6
pH	pH unit	7.17	7.85	6.21	7.41	7.21	7.42	5.75

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A2
Inorganic - Validated Data
HSA-8N

	Sample Name	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0	SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
	Sample Date	04/19/2011	04/19/2011	06/07/2011	04/15/2011	05/09/2011
	SDG	DE131	DE131	DE175	DE129	DE146
	Start Depth	0	0	3	0	4
	End Depth	0.5	0.5	4	0.5	5
Chemical Name	Unit					
Nitrate	mg/kg	3.5	4.7	4.2	1.7 U	2.0 J FD
Fluoride	mg/kg	1.1 UJ Q	1.1 UJ Q	2.8 J Q	3.2 J Q	3.5 J FD, Q
Cyanide	mg/kg	0.53 U	0.58 U	0.57 U	0.58 U	0.58 U
Aluminum	mg/kg	12500	13600	17500	24300	22300
Iron	mg/kg	18600	19400	22900	33500	30800
Lead	mg/kg	12.9	18	7.61 J Q	8.63 J E, *#	7.39 J E, A
Lithium	mg/kg	25.5	22.5	28.8	31.1	32.1
Magnesium	mg/kg	4060	4300	4520	8500	7970
Manganese	mg/kg	309	362	275 J E	372	362
Mercury	mg/kg	0.0181 J Z	0.0268 J Z	0.108 U	0.0166 J Q, Z	0.118 U
Molybdenum	mg/kg	0.502	0.6	0.803 J Q	0.297 J E	0.398
Nickel	mg/kg	13.2 J Q, *#	15.1 J Q, *#	14.8 J Q, E	15.8 J Q, *#	16.9 J E, A
Potassium	mg/kg	3530	3690	2680 J Q	6630	5720
Silver	mg/kg	0.0257 J FD, Z	0.0531 J Z	0.0370 J Q, Z	0.0311 J Z	0.0290 J Z
Sodium	mg/kg	69.8 J Z	77.7 J Z	75.3 J Z	121	303
Strontium	mg/kg	14.7	23	18.1	87	58.4
Thallium	mg/kg	0.3	0.314	0.328 J Q	0.290 J Q	0.281
Tin	mg/kg	10.8 U B	11.1 U B	10.9 U B	11.0 U B, Z	11.9 U B
Titanium	mg/kg	1080	1030	1170	1270	1350
Antimony	mg/kg	0.218 UJ FD, Q, E	0.279 J Q, E	0.146 J Q, Z	0.227 UJ Q	0.236 J Q
Arsenic	mg/kg	5.92	6.08	6.96 J Q, E	4.73 J Q	6.00 J E
Beryllium	mg/kg	0.629	0.633	0.669 J Q	0.612	0.594 J E
Barium	mg/kg	116 J E, *#	133 J E, *#	118	82.4 J *#	92.9 J E, A
Boron	mg/kg	5.39 UJ F, FD	5.55 U F	7.14	9.73	7.5
Cadmium	mg/kg	0.150 J Q	0.283 J Q	0.133 J Q	0.173 J Q, E	0.162
Chromium	mg/kg	18.2	19.9	21.1 J Q, A	26.7 J E, *#	27.7 J E, Q, A
Cobalt	mg/kg	6.90 J Q	7.32 J Q	7.26 J E, Q	8.46 J *#	9.29 J E, A
Copper	mg/kg	10.1 J Q	14.0 J Q	7.98 J Q	13.9 J Q, *#	14.7 J E, A
Vanadium	mg/kg	37	38.2	42.8 J E, A	50.3 J *#	62.3 J E, A
Zinc	mg/kg	79.3	79.7	67	64.1 J *#	69.4 J E, A
Zirconium	mg/kg	1.84 J Z	2.13 J Z	2.19 J Z	3.49 J Z	5.89 J Z
Calcium	mg/kg	2180	3990	2690 J E	40500	30800 J E
Phosphorus	mg/kg	431	494	393	642	647
Selenium	mg/kg	0.122 J Z	0.204 J Z	0.295 J Z	0.262 J Z	0.289 J Z
Chromium VI	mg/kg	1.1 U	0.49 J Z	0.54 J Z	0.85 J Z	1.2 U
Perchlorate (314.0)	ug/kg	32.7 U	34.3 U	34.1 U	34.3 U	36.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--
Percent Moisture	%	8.2	12.6	11.9	12.6	16.8
pH	pH unit	5.92	6.68	6.74	8.34	8.05

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0	SL-003-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DE124	DE165	DE165	DE124	DE166	DE166	DE124
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	16 U	12 U	11 U	15 U	12 U	12 U	16 U
Diethylene Glycol	mg/kg	16 U	12 U	11 U	15 U	12 UJ Q	12 U	16 U
Propylene glycol	mg/kg	16 U	12 U	11 U	15 U	12 U	12 U	16 U
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4,6-Trinitrotoluene	ug/kg	--	--	--	--	--	--	--
RDX	ug/kg	--	--	--	--	--	--	--
4-Amino-2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
HMX	ug/kg	--	--	--	--	--	--	--
2-Amino-4,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
Tetryl	ug/kg	--	--	--	--	--	--	--
Nitroglycerin	ug/kg	--	--	--	--	--	--	--
2,6-Diamino-4-nitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4-Diamino-6-nitrotoluene	ug/kg	--	--	--	--	--	--	--
PETN	ug/kg	--	--	--	--	--	--	--
2-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
3-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
1,3,5-Trinitrobenzene	ug/kg	--	--	--	--	--	--	--
4-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--	--
m-Dinitrobenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0	SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0
Sample Date		05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011
SDG		DE167	DE167	DE124	DE134	DE134	DE124	DE134
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	12 U	12 U	14 U	15 U	14 U	13 U	14 U
Diethylene Glycol	mg/kg	12 U	12 U	14 U	15 U	14 U	13 U	14 U
Propylene glycol	mg/kg	12 U	12 U	14 U	15 U	14 U	13 U	14 U
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
RDX	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
HMX	ug/kg	--	--	350 U	340 U	340 U	320 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
Tetryl	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	--	--	2800 U	2700 U	2700 U	2500 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	--	--	280 U	270 U	270 U	250 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	--	--	280 U	270 U	270 U	250 U	270 U
PETN	ug/kg	--	--	2800 U	2700 U	2700 U	2500 U	2700 U
2-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	--	--	140 U	140 U	140 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5	SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0
Sample Date		04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE134	DE124	DE134	DE134	DE124	DE135	DE135
Start Depth		8	0	4	8	0	4	9
End Depth		9	0.5	5	9	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	14 U	14 U	15 U	15 U	15 U	15 U	14 U
Diethylene Glycol	mg/kg	14 U	14 U	15 U	15 U	15 U	15 U	14 U
Propylene glycol	mg/kg	14 U	14 U	15 U	15 U	15 U	15 U	14 U
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
RDX	ug/kg	130 U	140 U	140 U	140 U	--	--	--
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
HMX	ug/kg	340 U	350 U	350 U	350 U	--	--	--
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
Tetryl	ug/kg	130 U	140 U	140 U	140 U	--	--	--
Nitroglycerin	ug/kg	2700 U	2800 U	2800 U	2800 U	--	--	--
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	280 U	280 U	280 U	--	--	--
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	280 U	280 U	280 U	--	--	--
PETN	ug/kg	2700 U	2800 U	2800 U	2800 U	--	--	--
2-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
3-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
4-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
2,4-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
Nitrobenzene	ug/kg	130 U	140 U	140 U	140 U	--	--	--
m-Dinitrobenzene	ug/kg	130 U	140 U	140 U	140 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5	SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE124	DE166	DE166	DE124	DE124	DE135	DE135
Start Depth		0	4	9	0	0	4	9
End Depth		0.5	5	10	0.5	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	590 U	590 U	590 U
Methanol	ug/kg	--	--	--	--	590 U	590 U	590 U
2-Propanol	ug/kg	--	--	--	--	590 U	590 U	590 U
Ethylene Glycol	mg/kg	14 U	12 U	12 U	15 U	15 U	15 U	15 U
Diethylene Glycol	mg/kg	14 U	12 U	12 U	15 U	15 U	15 U	15 U
Propylene glycol	mg/kg	14 U	12 U	12 U	15 U	15 U	15 U	15 U
o-Terphenyl	mg/kg	--	--	--	--	4.1 U	4.1 U	4.1 U
m-Terphenyl	mg/kg	--	--	--	--	4.1 U	4.1 U	4.1 U
p-Terphenyl	mg/kg	--	--	--	--	4.1 U	4.1 U	4.1 U
Formaldehyde	ug/kg	--	--	--	--	1800 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
RDX	ug/kg	--	--	--	140 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
HMX	ug/kg	--	--	--	360 U	360 U	350 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
Tetryl	ug/kg	--	--	--	140 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	--	--	--	2900 U	2800 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	--	--	--	290 U	280 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	--	--	--	290 U	280 U	280 U	270 U
PETN	ug/kg	--	--	--	2900 U	2800 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	--	--	--	140 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	--	--	--	140 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0	SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/12/2011	05/02/2011	04/11/2011	04/29/2011
SDG		DE124	DE135	DE135	DE125	DE141	DE124	DE140
Start Depth		0	4	9	0	4	0	2
End Depth		0.5	5	10	0.5	5	0.5	3
Chemical Name	Unit							
Ethanol	ug/kg	590 U	590 U	590 U	570 U	590 U	--	--
Methanol	ug/kg	590 U	590 U	590 U	570 U	590 U	--	--
2-Propanol	ug/kg	590 U	590 U	590 U	570 U	590 U	--	--
Ethylene Glycol	mg/kg	15 U	15 U	15 U	14 U	12 U	15 UJ Q	14 U
Diethylene Glycol	mg/kg	15 U	15 U	15 U	14 U	12 U	15 U	14 U
Propylene glycol	mg/kg	15 U	15 U	15 U	14 U	12 U	15 UJ Q	14 U
o-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.0 U	4.1 U	--	--
m-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.0 U	4.1 U	--	--
p-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.0 U	4.1 U	--	--
Formaldehyde	ug/kg	1800 U	1700 U	1700 U	1700 U	1800 U	--	--
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
RDX	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
HMX	ug/kg	330 U	330 U	350 U	340 U	360 U	--	--
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
Tetryl	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
Nitroglycerin	ug/kg	2700 U	2700 U	2800 U	2700 U	2800 U	--	--
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 U	280 U	270 U	280 U	--	--
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 U	280 U	270 U	280 U	--	--
PETN	ug/kg	2700 U	2700 U	2800 U	2700 U	2800 U	--	--
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
Nitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--
m-Dinitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5	SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	04/11/2011
SDG		DE124	DE140	DE125	DE142	DE125	DE142	DE124
Start Depth		0	4	0	4	0	3	0
End Depth		0.5	5	0.5	5	0.5	4	0.5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	15 U	14 U	15 U	12 UJ Q	14 U	11 U	14 U
Diethylene Glycol	mg/kg	15 U	14 U	15 U	12 UJ Q	14 U	11 U	14 U
Propylene glycol	mg/kg	15 U	14 U	15 U	12 UJ Q	14 U	11 U	14 U
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4,6-Trinitrotoluene	ug/kg	--	--	--	--	--	--	--
RDX	ug/kg	--	--	--	--	--	--	--
4-Amino-2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
HMX	ug/kg	--	--	--	--	--	--	--
2-Amino-4,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
Tetryl	ug/kg	--	--	--	--	--	--	--
Nitroglycerin	ug/kg	--	--	--	--	--	--	--
2,6-Diamino-4-nitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4-Diamino-6-nitrotoluene	ug/kg	--	--	--	--	--	--	--
PETN	ug/kg	--	--	--	--	--	--	--
2-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
3-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
1,3,5-Trinitrobenzene	ug/kg	--	--	--	--	--	--	--
4-Nitrotoluene	ug/kg	--	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg	--	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--	--
m-Dinitrobenzene	ug/kg	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011
SDG		DE140	DE140	DE125	DE142	DE125	DE142	DE142
Start Depth		4	7	0	4	0	4	9
End Depth		5	8	0.5	5	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	--	--	600 U	580 U	580 U	590 U	610 U
Methanol	ug/kg	--	--	600 U	580 U	580 U	590 U	610 U
2-Propanol	ug/kg	--	--	600 U	580 U	580 U	590 U	610 U
Ethylene Glycol	mg/kg	14 U	15 U	15 U	12 U	14 U	12 U	12 U
Diethylene Glycol	mg/kg	14 U	15 U	15 U	12 U	14 U	12 U	12 U
Propylene glycol	mg/kg	14 U	15 U	15 U	12 U	14 U	12 U	12 U
o-Terphenyl	mg/kg	--	--	4.2 U	4.0 U	4.1 U	4.1 U	4.3 U
m-Terphenyl	mg/kg	--	--	4.2 U	4.0 U	4.1 U	4.1 U	4.3 U
p-Terphenyl	mg/kg	--	--	4.2 U	4.0 U	4.1 U	4.1 U	4.3 U
Formaldehyde	ug/kg	--	--	1800 U	1700 UJ H, S, L	1700 U	1800 UJ H, S, L	1800 UJ H, S, L
2,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
RDX	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
HMX	ug/kg	--	--	360 U	350 U	350 U	350 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
Tetryl	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	--	--	2900 U	2800 U	2800 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	--	--	290 U	280 U	280 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	--	--	290 U	280 U	280 U	280 U	280 U
PETN	ug/kg	--	--	2900 U	2800 U	2800 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	--	--	140 U	140 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0	SL-047-SA8N-SS-0.0-0.5
Sample Date		04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011	04/12/2011
SDG		DE125	DE143	DE143	DE125	DE141	DE141	DE125
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	580 U	590 U	590 U	580 U	600 U	590 U
Methanol	ug/kg	560 U	580 U	590 U	590 U	580 U	600 U	590 U
2-Propanol	ug/kg	560 U	580 U	590 U	590 U	580 U	600 U	590 U
Ethylene Glycol	mg/kg	14 U	12 UJ Q	12 U	15 U	12 U	12 U	15 U
Diethylene Glycol	mg/kg	14 U	12 UJ Q	12 U	15 U	12 U	12 U	15 U
Propylene glycol	mg/kg	14 U	12 UJ Q	12 U	15 U	12 U	12 U	15 U
o-Terphenyl	mg/kg	3.9 U	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	4.1 U
m-Terphenyl	mg/kg	3.9 U	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	4.1 U
p-Terphenyl	mg/kg	3.9 U	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	4.1 U
Formaldehyde	ug/kg	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U	1800 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
RDX	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
HMX	ug/kg	330 U	330 U	350 U	340 U	350 U	340 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
Tetryl	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2700 U	2600 U	2800 U	2700 U	2800 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	260 U	280 U	270 U	280 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	260 U	280 U	270 U	280 U	280 U	280 U
PETN	ug/kg	2700 U	2600 U	2800 U	2700 U	2800 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	140 U	140 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5	SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5	SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011	05/02/2011	05/02/2011
SDG		DE125	DE124	DE140	DE140	DE125	DE141	DE141
Start Depth		0	0	4	8	0	4	9
End Depth		0.5	0.5	5	9	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	--	560 U	560 U	590 U	--	--	--
Methanol	ug/kg	--	560 U	560 U	590 U	--	--	--
2-Propanol	ug/kg	--	560 U	560 U	590 U	--	--	--
Ethylene Glycol	mg/kg	16 U	14 U	14 U	15 U	15 U	12 U	12 U
Diethylene Glycol	mg/kg	16 U	14 U	14 U	15 U	15 U	12 U	12 U
Propylene glycol	mg/kg	16 U	14 U	14 U	15 U	15 U	12 U	12 U
o-Terphenyl	mg/kg	--	3.9 U	3.9 U	4.1 U	--	--	--
m-Terphenyl	mg/kg	--	3.9 U	3.9 U	4.1 U	--	--	--
p-Terphenyl	mg/kg	--	3.9 U	3.9 U	4.1 U	--	--	--
Formaldehyde	ug/kg	--	1700 U	1700 U	1800 U	--	--	--
2,6-Dinitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
2,4,6-Trinitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
RDX	ug/kg	--	130 U	130 U	140 U	--	--	--
4-Amino-2,6-Dinitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
HMX	ug/kg	--	340 U	340 U	360 U	--	--	--
2-Amino-4,6-Dinitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
Tetryl	ug/kg	--	130 U	130 U	140 U	--	--	--
Nitroglycerin	ug/kg	--	2700 U	2700 U	2900 U	--	--	--
2,6-Diamino-4-nitrotoluene	ug/kg	--	270 U	270 U	290 U	--	--	--
2,4-Diamino-6-nitrotoluene	ug/kg	--	270 U	270 U	290 U	--	--	--
PETN	ug/kg	--	2700 U	2700 U	2900 U	--	--	--
2-Nitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
3-Nitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
1,3,5-Trinitrobenzene	ug/kg	--	130 U	130 U	140 U	--	--	--
4-Nitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
2,4-Dinitrotoluene	ug/kg	--	130 U	130 U	140 U	--	--	--
Nitrobenzene	ug/kg	--	130 U	130 U	140 U	--	--	--
m-Dinitrobenzene	ug/kg	--	130 U	130 U	140 U	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5	SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-062-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	05/05/2011	05/05/2011	04/18/2011	05/05/2011	05/05/2011	04/15/2011
SDG		DE130	DE144	DE144	DE130	DE144	DE144	DE129
Start Depth		0	4	7	0	4	7	0
End Depth		0.5	5	8	0.5	5	8	0.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	570 U	540 U	560 U	580 U	550 U	570 U
Methanol	ug/kg	580 U	570 U	540 U	560 U	580 U	550 U	570 U
2-Propanol	ug/kg	580 U	570 U	540 U	560 U	580 U	550 U	570 U
Ethylene Glycol	mg/kg	15 U	11 U	11 U	14 U	12 U	11 U	14 U
Diethylene Glycol	mg/kg	15 U	11 U	11 U	14 U	12 U	11 U	14 U
Propylene glycol	mg/kg	15 U	11 U	11 U	14 U	12 U	11 U	14 U
o-Terphenyl	mg/kg	4.1 U	4.0 U	3.8 U	3.9 U	4.0 U	3.8 U	4.0 U
m-Terphenyl	mg/kg	4.1 U	4.0 U	3.8 U	3.9 U	4.0 U	3.8 U	4.0 U
p-Terphenyl	mg/kg	4.1 U	4.0 U	3.8 U	3.9 U	4.0 U	3.8 U	4.0 U
Formaldehyde	ug/kg	1700 U	1700 U	1600 U	1700 U	1700 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
RDX	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
HMX	ug/kg	320 U	340 U	300 U	310 U	320 U	320 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
Tetryl	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2600 U	3600 U	2400 U	2500 U	2600 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	270 U	240 U	250 U	260 U	260 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	270 U	240 U	250 U	260 U	260 U	270 U
PETN	ug/kg	2600 U	2700 U	2400 U	2500 U	2600 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	140 U	120 U	120 U	130 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5
Sample Date		05/05/2011	04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011
SDG		DE144	DE129	DE143	DE130	DE175	DE131	DE131
Start Depth		4	0	4	0	2	0	0
End Depth		5	0.5	5	0.5	3	0.5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	610 U	600 U	590 U	540 U	580 U	560 U
Methanol	ug/kg	580 U	610 U	600 U	590 U	540 U	580 U	560 U
2-Propanol	ug/kg	580 U	610 U	600 U	590 U	540 U	580 U	560 U
Ethylene Glycol	mg/kg	12 U	15 U	12 U	15 U	11 U	15 U	14 U
Diethylene Glycol	mg/kg	12 U	15 U	12 U	15 U	11 U	15 UJ Q, E	14 U
Propylene glycol	mg/kg	12 U	15 U	12 U	15 U	11 U	15 U	14 U
o-Terphenyl	mg/kg	4.0 U	4.3 U	4.2 U	4.1 U	3.8 U	4.1 U	3.9 U
m-Terphenyl	mg/kg	4.0 U	4.3 U	4.2 U	4.1 U	3.8 U	4.1 U	3.9 U
p-Terphenyl	mg/kg	4.0 U	4.3 U	4.2 U	4.1 U	3.8 U	4.1 U	3.9 U
Formaldehyde	ug/kg	1700 U	1800 U	1800 U	1700 U	1600 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
RDX	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
HMX	ug/kg	330 U	360 U	360 U	350 U	320 U	340 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
Tetryl	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
Nitroglycerin	ug/kg	2600 U	2900 U	2900 U	2800 U	2500 U	2700 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	290 U	290 U	280 U	250 U	270 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	290 U	290 U	280 U	250 U	270 U	270 U
PETN	ug/kg	2600 U	2900 U	2900 U	2800 U	2500 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
3-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
4-Nitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
Nitrobenzene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U
m-Dinitrobenzene	ug/kg	130 U	140 U	140 U	140 U	130 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011
SDG		DE176	DE176	DE131	DE127	DE146	DE127	DE174
Start Depth		4	7.5	0	0	4	0	4
End Depth		5	8.5	0.5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	580 U	640 U	580 U	570 U	600 U	570 U
Methanol	ug/kg	560 U	580 U	640 U	580 U	570 U	600 U	570 U
2-Propanol	ug/kg	560 U	580 U	640 U	580 U	570 U	600 U	570 U
Ethylene Glycol	mg/kg	11 UJ Q	12 U	16 U	14 U	11 U	15 U	11 U
Diethylene Glycol	mg/kg	11 UJ Q	12 U	16 U	14 U	11 U	15 U	11 U
Propylene glycol	mg/kg	11 UJ Q	12 U	16 U	14 U	11 U	15 U	11 U
o-Terphenyl	mg/kg	4.0 U	4.0 U	4.5 U	4.0 U	3.9 U	4.2 UJ S	4.0 U
m-Terphenyl	mg/kg	4.0 UJ Q	4.0 U	4.5 U	4.0 U	3.9 U	4.2 UJ S	4.0 U
p-Terphenyl	mg/kg	4.0 U	4.0 U	4.5 U	4.0 U	3.9 U	4.2 UJ S	4.0 U
Formaldehyde	ug/kg	1700 U	1700 U	1900 U	1700 U	1700 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
RDX	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
HMX	ug/kg	330 U	320 U	380 U	330 U	340 U	360 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
Tetryl	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2700 U	2600 U	3000 U	2600 U	2700 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	260 U	300 U	260 U	270 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	260 U	300 U	260 U	270 U	280 U	280 U
PETN	ug/kg	2700 U	2600 U	3000 U	2600 U	2700 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 UJ Q	130 U	150 U	130 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	150 U	130 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0
Sample Date		06/06/2011	04/18/2011	05/04/2011	04/14/2011	04/18/2011	05/09/2011	05/09/2011
SDG		DE174	DE130	DE143	DE127	DE130	DE146	DE146
Start Depth		9	0	4	0	0	4	9
End Depth		10	0.5	5	0.5	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	590 U	610 U	570 U	560 U	580 U	580 U	590 U
Methanol	ug/kg	590 U	610 U	570 U	560 U	580 U	580 U	590 U
2-Propanol	ug/kg	590 U	610 U	570 U	560 U	580 U	580 U	590 U
Ethylene Glycol	mg/kg	12 U	15 U	11 U	14 U	14 U	12 U	12 U
Diethylene Glycol	mg/kg	12 U	15 U	11 U	14 U	14 U	12 U	12 U
Propylene glycol	mg/kg	12 U	15 U	11 U	14 U	14 U	12 U	12 U
o-Terphenyl	mg/kg	4.1 U	4.2 U	4.0 U	3.9 UJ S	4.0 U	4.0 U	4.1 U
m-Terphenyl	mg/kg	4.1 U	4.2 U	4.0 U	3.9 UJ S	4.0 U	4.0 U	4.1 U
p-Terphenyl	mg/kg	4.1 U	4.2 U	4.0 U	3.9 UJ S	4.0 U	4.0 U	4.1 U
Formaldehyde	ug/kg	1800 U	1800 U	1700 U	1700 U	1700 U	1700 U	1800 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
RDX	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
HMX	ug/kg	350 U	340 U	340 U	330 U	340 U	350 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
Tetryl	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2800 U	2700 U	2800 U	2600 U	2700 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	270 U	280 U	260 U	270 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	270 U	280 U	260 U	270 U	280 U	280 U
PETN	ug/kg	2800 U	2700 U	2800 U	2600 U	2700 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0
Sample Date		05/09/2011	04/14/2011	04/19/2011	04/19/2011	05/12/2011	04/20/2011	05/12/2011
SDG		DE146	DE127	DE131	DE131	DE149	DE132	DE149
Start Depth		3	0	0	0	4	0	4
End Depth		4	0.5	0.5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	570 U	590 U	560 U	570 U	570 U	580 U	590 U
Methanol	ug/kg	570 U	590 U	560 U	570 U	570 U	580 U	590 U
2-Propanol	ug/kg	570 U	590 U	560 U	570 U	570 U	580 U	590 U
Ethylene Glycol	mg/kg	11 U	15 U	14 U	14 U	11 U	15 U	12 U
Diethylene Glycol	mg/kg	11 U	15 U	14 U	14 U	11 U	15 U	12 U
Propylene glycol	mg/kg	11 U	15 U	14 U	14 U	11 U	15 U	12 U
o-Terphenyl	mg/kg	4.0 U	4.1 U	3.9 U	4.0 U	4.0 U	4.1 U	4.1 U
m-Terphenyl	mg/kg	4.0 U	4.1 U	3.9 U	4.0 U	4.0 UJ Q	4.1 U	4.1 U
p-Terphenyl	mg/kg	4.0 U	4.1 U	3.9 U	4.0 U	4.0 U	4.1 U	4.1 U
Formaldehyde	ug/kg	1700 U	1800 U	3300 U	3400 U	1700 U	3400 U	1800 U
2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
RDX	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
HMX	ug/kg	340 U	350 U	330 U	340 U	340 U	350 U	360 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
Tetryl	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2700 U	2800 U	2700 U	2700 U	2700 U	2800 U	2900 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	280 U	270 U	270 U	270 U	280 U	290 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	280 U	270 U	270 U	270 U	280 U	290 U
PETN	ug/kg	2700 U	2800 U	2700 U	2700 U	2700 U	2800 U	2900 U
2-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-105-SA8N-SB-4.0-5.0	SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0
Sample Date		05/12/2011	04/20/2011	05/12/2011	05/10/2011	06/08/2011	04/20/2011	06/08/2011
SDG		DE149	DE132	DE149	DE147	DE176	DE132	DE176
Start Depth		7	0	3	4	2.5	0	4
End Depth		8	0.5	4	5	3.5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	590 U	580 U	590 U	590 U	580 U	510 U	570 U
Methanol	ug/kg	590 U	580 U	590 U	590 U	580 U	510 U	570 U
2-Propanol	ug/kg	590 U	580 U	590 U	590 U	580 U	340 J Z	570 U
Ethylene Glycol	mg/kg	12 U	14 U	12 U	12 U	12 U	13 U	11 U
Diethylene Glycol	mg/kg	12 U	14 U	12 U	12 U	12 U	13 U	11 U
Propylene glycol	mg/kg	12 U	14 U	12 U	12 U	12 U	13 U	11 U
o-Terphenyl	mg/kg	4.1 U	4.0 U	4.2 U	4.1 U	4.0 U	7.1 U	4.0 U
m-Terphenyl	mg/kg	4.1 U	4.0 U	4.2 U	4.1 U	4.0 U	7.1 U	4.0 U
p-Terphenyl	mg/kg	4.1 U	4.0 U	4.2 U	4.1 U	4.0 U	3.0 J Z	4.0 U
Formaldehyde	ug/kg	1700 U	1700 U	1800 U	1800 U	1700 U	1500 U	2700
2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
RDX	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
HMX	ug/kg	350 U	350 U	360 U	350 U	330 U	300 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
Tetryl	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
Nitroglycerin	ug/kg	2800 U	2800 U	2900 U	2800 U	2600 U	2400 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	280 U	290 U	280 U	260 U	240 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	280 U	290 U	280 U	260 U	240 U	250 U
PETN	ug/kg	2800 U	2800 U	2900 U	2800 U	2600 U	2400 U	2500 U
2-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
3-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
4-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
Nitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U
m-Dinitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	120 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0	SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0
Sample Date		06/08/2011	04/21/2011	06/10/2011	04/21/2011	04/21/2011	04/21/2011	06/09/2011
SDG		DE176	DE134	DE178	DE134	DE134	DE134	DE177
Start Depth		9	0	3	0	0	0	4
End Depth		10	0.5	4	0.5	0.5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	560 U	550 U	570 U	560 U	600 U	580 U
Methanol	ug/kg	580 U	560 U	550 U	570 U	560 U	600 U	580 U
2-Propanol	ug/kg	580 U	560 U	550 U	570 U	560 U	600 U	580 U
Ethylene Glycol	mg/kg	12 U	14 U	11 U	14 U	14 U	15 U	12 U
Diethylene Glycol	mg/kg	12 U	14 U	11 U	14 U	14 U	15 U	12 U
Propylene glycol	mg/kg	12 U	14 U	11 U	14 U	14 U	15 U	12 U
o-Terphenyl	mg/kg	4.0 U	3.9 U	3.8 U	4.0 U	3.9 U	4.2 U	4.0 U
m-Terphenyl	mg/kg	4.0 U	3.9 U	3.8 U	4.0 U	3.9 U	4.2 U	4.0 U
p-Terphenyl	mg/kg	4.0 U	3.9 U	3.8 U	4.0 U	3.9 U	4.2 U	4.0 U
Formaldehyde	ug/kg	3100	1500 J Z	1600 U	780 J Z	1700 U	1600 J Z	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
RDX	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
HMX	ug/kg	330 U	330 U	310 U	330 U	320 U	350 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
Tetryl	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
Nitroglycerin	ug/kg	2600 U	2600 U	2500 U	2600 U	2600 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	260 U	250 U	260 U	260 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	260 U	250 U	260 U	260 U	280 U	280 U
PETN	ug/kg	2600 U	2600 U	2500 U	2600 U	2600 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U	130 U	130 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5	SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/21/2011	04/20/2011	05/11/2011	05/11/2011	04/19/2011
SDG		DE134	DE134	DE134	DE132	DE148	DE148	DE131
Start Depth		0	0	0	0	4	9	0
End Depth		0.5	0.5	0.5	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	530 U	590 U	530 U	530 U	540 U	580 U	520 U
Methanol	ug/kg	530 U	590 U	530 U	530 U	540 U	580 U	520 U
2-Propanol	ug/kg	530 U	590 U	530 U	530 U	540 U	580 U	520 U
Ethylene Glycol	mg/kg	13 U	15 U	13 U	13 U	11 UJ Q	12 U	13 U
Diethylene Glycol	mg/kg	13 U	15 U	13 U	13 U	11 UJ Q	12 U	13 U
Propylene glycol	mg/kg	13 U	15 U	13 U	13 U	11 U	12 U	13 U
o-Terphenyl	mg/kg	3.7 U	4.1 U	3.7 U	3.7 U	3.8 U	4.0 U	3.6 U
m-Terphenyl	mg/kg	3.7 U	4.1 U	3.7 U	3.7 U	3.8 U	4.0 U	3.6 U
p-Terphenyl	mg/kg	3.7 U	4.1 U	3.7 U	3.7 U	3.8 U	4.0 U	3.6 U
Formaldehyde	ug/kg	1300 J Z	1100 J Z	1000 J Z	1600 U	1600 U	1700 U	3100 U
2,6-Dinitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
2,4,6-Trinitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
RDX	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
HMX	ug/kg	300 U	350 U	300 U	320 U	320 U	350 U	310 U
2-Amino-4,6-Dinitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
Tetryl	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
Nitroglycerin	ug/kg	2400 U	2800 U	2400 U	2600 U	2600 U	2800 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	240 U	280 U	240 U	260 U	260 U	280 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	240 U	280 U	240 U	260 U	260 U	280 U	250 U
PETN	ug/kg	2400 U	2800 U	2400 U	2600 U	2600 U	2800 U	2500 U
2-Nitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
3-Nitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
1,3,5-Trinitrobenzene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
4-Nitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
2,4-Dinitrotoluene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
Nitrobenzene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U
m-Dinitrobenzene	ug/kg	120 U	140 U	120 U	130 U	130 U	140 U	120 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5	SL-126-SA8N-SS-0.0-0.5	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0
Sample Date		06/07/2011	04/21/2011	04/21/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011
SDG		DE175	DE134	DE134	DE130	DE127	DE174	DE175
Start Depth		2	0	0	0	0	4	7
End Depth		3	0.5	0.5	0.5	0.5	5	8
Chemical Name	Unit							
Ethanol	ug/kg	540 U	610 U	550 U	550 U	590 U	590 U	580 U
Methanol	ug/kg	540 U	610 U	550 U	550 U	590 U	590 U	580 U
2-Propanol	ug/kg	540 U	610 U	550 U	550 U	590 U	590 U	580 U
Ethylene Glycol	mg/kg	11 U	15 U	14 U	14 U	15 U	12 U	12 U
Diethylene Glycol	mg/kg	11 U	15 U	14 U	14 U	15 U	12 U	12 U
Propylene glycol	mg/kg	11 U	15 U	14 U	14 U	15 U	12 U	12 U
o-Terphenyl	mg/kg	3.8 U	4.3 U	3.9 U	3.8 U	4.1 U	4.1 U	4.0 U
m-Terphenyl	mg/kg	3.8 U	4.3 U	3.9 U	3.8 U	4.1 U	4.1 U	4.0 U
p-Terphenyl	mg/kg	3.8 U	4.3 U	3.9 U	3.8 U	4.1 U	4.1 U	4.0 U
Formaldehyde	ug/kg	1600 U	1700 J Z	870 J Z	1600 U	1800 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 UJ C	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	320 U	350 U	310 U	320 U	330 U	330 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2500 U	2800 U	2500 U	2600 U	2700 U	2700 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	280 U	250 U	260 U	270 U	270 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	280 U	250 U	260 U	270 U	270 U	270 U
PETN	ug/kg	2500 U	2800 U	2500 U	2600 U	2700 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	140 U	130 U	130 U	130 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-134-SA8N-SS-0.0-0.5	SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		04/14/2011	04/19/2011	05/09/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE127	DE131	DE146	DE131	DE131	DE131	DE175
Start Depth		0	0	2	0	0	0	3
End Depth		0.5	0.5	3	0.5	0.5	0.5	4
Chemical Name	Unit							
Ethanol	ug/kg	570 U	550 U	550 U	520 U	540 U	570 U	570 U
Methanol	ug/kg	570 U	550 U	550 U	520 U	540 U	570 U	570 U
2-Propanol	ug/kg	570 U	550 U	550 U	520 U	540 U	570 U	570 U
Ethylene Glycol	mg/kg	14 U	14 U	11 U	13 U	14 U	14 U	11 U
Diethylene Glycol	mg/kg	14 U	14 U	11 U	13 U	14 U	14 U	11 U
Propylene glycol	mg/kg	14 U	14 U	11 U	13 U	14 U	14 U	11 U
o-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.7 U	3.8 U	4.0 U	4.0 U
m-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.7 U	3.8 U	4.0 U	4.0 U
p-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.7 U	3.8 U	4.0 U	4.0 U
Formaldehyde	ug/kg	1700 U	1600 U	1600 U	3100 U	3300 U	3400 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
RDX	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
HMX	ug/kg	330 U	330 U	330 U	310 U	310 U	340 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
Tetryl	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
Nitroglycerin	ug/kg	2700 U	2600 U	2700 U	2500 U	2500 U	2700 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	260 U	270 U	250 U	250 U	270 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	260 U	270 U	250 U	250 U	270 U	260 U
PETN	ug/kg	2700 U	2600 U	2700 U	2500 U	2500 U	2700 U	2600 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	120 U	120 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics - Validated Data
HSA-8N

Sample Name		SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/09/2011
SDG		DE129	DE146
Start Depth		0	4
End Depth		0.5	5
Chemical Name	Unit		
Ethanol	ug/kg	570 U	600 U
Methanol	ug/kg	570 U	600 U
2-Propanol	ug/kg	570 U	600 U
Ethylene Glycol	mg/kg	14 U	12 UJ Q
Diethylene Glycol	mg/kg	14 U	12 UJ Q
Propylene glycol	mg/kg	14 U	12 UJ Q
o-Terphenyl	mg/kg	4.0 UJ S	4.2 U
m-Terphenyl	mg/kg	4.0 UJ S	4.2 U
p-Terphenyl	mg/kg	4.0 UJ S	4.2 U
Formaldehyde	ug/kg	1700 U	1800 U
2,6-Dinitrotoluene	ug/kg	130 U	140 UJ Q
2,4,6-Trinitrotoluene	ug/kg	130 U	140 UJ Q
RDX	ug/kg	130 U	140 UJ Q
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 UJ Q
HMX	ug/kg	330 U	350 UJ Q
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 UJ Q
Tetryl	ug/kg	130 U	140 U
Nitroglycerin	ug/kg	2600 U	2800 UJ Q
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	280 U
PETN	ug/kg	2600 U	2800 U
2-Nitrotoluene	ug/kg	130 U	140 UJ Q
3-Nitrotoluene	ug/kg	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 UJ Q
4-Nitrotoluene	ug/kg	130 U	140 UJ Q
2,4-Dinitrotoluene	ug/kg	130 U	140 UJ Q
Nitrobenzene	ug/kg	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0	SL-003-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DX068	DX091	DX091	DX068	DX093	DX093	DX068
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0306 J Z	1.18 U	1.12 U B	1.24 U	1.17 UJ B, FD	1.17 U B	1.23 U
1,2,3,7,8,9-HxCDD	ng/kg	0.225 J Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 UJ B, FD	0.154 J Z	6.16 U B, Z
OCDD	ng/kg	30.4	11.8 U B	11.2 U B	95.4	11.7 UJ B, FD	2.00 J Z	42.1
1,2,3,4,6,7,8-HpCDD	ng/kg	4.19 J Z	5.89 U B	5.59 U B	11.3	5.87 UJ B, FD	5.84 U B	6.26
OCDF	ng/kg	1.23 J Z	11.8 U B	11.2 U B	2.03 J Z	11.7 U B	11.7 U B	12.3 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.101 J Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 UJ B, FD	5.84 U B	6.16 U B, Z
1,2,3,7,8-PeCDD	ng/kg	6.17 U B, Z	5.89 U B	5.59 U	6.18 U B, Z	5.87 U B	5.84 U B	6.16 U B, Z
2,3,7,8-TCDF	ng/kg	1.23 U	1.18 U	1.12 U	1.24 U B, Z	0.0368 J FD, Z	0.0223 J Z	1.23 U
1,2,3,4,7,8,9-HpCDF	ng/kg	6.17 U B, Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 U B	5.84 U B	6.16 U B, Z
2,3,4,7,8-PeCDF	ng/kg	0.791 J Z	0.0627 J Z	0.0491 J Z	6.18 U	5.87 U B	5.84 U B	6.16 U B, Z
1,2,3,7,8-PeCDF	ng/kg	6.17 U	5.89 U B	5.59 U B	6.18 U B, Z	5.87 U B	5.84 U B	6.16 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	6.17 U B, Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 U B	0.172 J Z	6.16 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	0.281 J Z	5.89 U B	5.59 U	6.18 U B, Z	5.87 U B	5.84 U B	6.16 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	6.17 U B, Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 UJ B, FD	5.84 U B	6.16 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	6.17 U B, Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 UJ B, FD	5.84 U B	6.16 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	1.34 J Z	5.89 U B	5.59 U	6.18 U B, Z	5.87 U B	0.233 J Z	6.16 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	6.17 U B, Z	5.89 U B	5.59 U B	6.18 U B, Z	5.87 U B	5.84 U B	6.16 U B, Z
Aroclor 1260	ug/kg	4.4 J Z	2.0 U	1.9 U	4.9 J Z	2.0 U	2.0 U	3.7 J Z
Aroclor 1254	ug/kg	8.0 J Z	2.0 U	1.9 U	4.7 J Z	2.0 U	2.0 U	7.1 J Z
Aroclor 1268	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 1221	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 5460	ug/kg	8.4 J Z	3.9 U	3.7 U	20 U	3.9 U	3.9 U	21 U
Aroclor 1232	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 5442	ug/kg	21 U	3.9 U	3.7 U	20 U	3.9 U	3.9 U	21 U
Aroclor 1248	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 1016	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 1262	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 1242	ug/kg	11 U	2.0 U	1.9 U	11 U	2.0 U	2.0 U	11 U
Aroclor 5432	ug/kg	21 U	3.9 U	3.7 U	20 U	3.9 U	3.9 U	21 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0	SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0
Sample Date		05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011
SDG		DX094	DX094	DX068	DX076	DX076	DX068	DX076
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U B	1.23 U B	1.13 U	1.18 U	1.13 U	1.05 U B, Z	0.0369 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	12.8	0.380 J Z
OCDD	ng/kg	11.6 U B	12.3 U B	93.3	11.8 U B, Z	3.17 J Z	3720	109
1,2,3,4,6,7,8-HpCDD	ng/kg	5.82 U B	6.14 U B	10.1	5.88 U B, Z	5.63 U B, Z	497	14.2
OCDF	ng/kg	11.6 U B	12.3 U B	1.98 J Z	11.8 U B, Z	11.3 U B, Z	30.2	1.14 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.82 U	0.0515 J Z	5.67 U B, Z	5.88 U	5.63 U B, Z	5.95	5.72 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.82 U	6.14 U B	5.67 U B, Z	5.88 U	5.63 U B, Z	4.40 J Z	5.72 U B, Z
2,3,7,8-TCDF	ng/kg	1.16 U	1.23 U	1.13 U B, Z	1.18 U B, Z	1.13 U	1.46 Z	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	2.68 J Z	5.72 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	27	5.72 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.82 U	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U	5.24 U B, Z	5.72 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	12	5.72 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	31.1	0.787 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	21.2	5.72 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	43.8	1.30 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	5.88 U B, Z	5.63 U B, Z	4.17 J Z	5.72 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.82 U B	6.14 U B	5.67 U B, Z	0.0514 J Z	0.0492 J Z	2.96 J Z	0.112 J Z
Aroclor 1260	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.1 J Z	2.0 U
Aroclor 1254	ug/kg	2.0 U	2.1 U	9.5 J Z	2.0 U	1.9 U	1.6 J Z	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	4.1 U	38 U	3.9 U	3.7 U	4.0 J Z	3.8 U
Aroclor 1232	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	4.1 U	38 U	3.9 U	3.7 U	7.0 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.1 U	20 U	2.0 U	1.9 U	3.6 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	4.1 U	38 U	3.9 U	3.7 U	7.0 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5	SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0
Sample Date		04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DX076	DX068	DX076	DX076	DX068	DX077	DX077
Start Depth		8	0	4	8	0	4	9
End Depth		9	0.5	5	9	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U	1.12 U B, Z	0.0448 J Z	1.18 U	1.20 U B, Z	1.15 U B, Z	1.14 U
1,2,3,7,8,9-HxCDD	ng/kg	1.23 J Z	2.09 J Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
OCDD	ng/kg	115	818	75.3	11.8 U B, Z	127	11.5 U B, Z	11.4 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	18.1	61.4	7.47	5.89 U B, Z	17.5	5.73 U B, Z	5.71 U B, Z
OCDF	ng/kg	1.02 J Z	1.88 J Z	12.0 U B, Z	11.8 U B, Z	2.40 J Z	11.5 U B, Z	11.4 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.422 J Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U
1,2,3,7,8-PeCDD	ng/kg	0.366 J Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
2,3,7,8-TCDF	ng/kg	1.11 U B, Z	1.12 U B, Z	1.20 U B, Z	1.18 U B, Z	1.20 U B, Z	0.0162 J Z	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.56 U B, Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
2,3,4,7,8-PeCDF	ng/kg	1.06 J Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.56 U B, Z	5.62 U B, Z	0.114 J Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	0.545 J Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	1.46 J Z	5.73	0.402 J Z	5.89 U B, Z	1.44 J Z	5.73 U B, Z	5.71 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	1.22 J Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.60 J Z	3.44 J Z	5.99 U B, Z	5.89 U B, Z	2.01 J Z	5.73 U B, Z	5.71 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.56 U B, Z	5.62 U B, Z	5.99 U B, Z	5.89 U B, Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	0.227 J Z	5.62 U B, Z	0.111 J Z	0.0655 J Z	6.00 U B, Z	5.73 U B, Z	5.71 U B, Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.5 J Z	2.0 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	0.72 J Z	2.0 U	2.0 U	3.1 J Z	2.0 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	4.0 U	3.9 U	8.7	3.8 U	3.8 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	4.0 U	3.9 U	8.0 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	4.0 U	3.9 U	8.0 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5	SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DX068	DX093	DX093	DX068	DX068	DX077	DX077
Start Depth		0	4	9	0	0	4	9
End Depth		0.5	5	10	0.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U B, Z	1.17 U	1.14 U	1.15 U B, Z	1.14 U B, Z	1.15 U	1.16 U
1,2,3,7,8,9-HxCDD	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	0.373 J Z	5.76 U B, Z	5.81 U B, Z
OCDD	ng/kg	91.1	11.7 U B	11.4 U B	9.40 J Z	72.8	11.5 U B, Z	11.6 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	8.75	5.85 U B	5.69 U B	1.58 J Z	8.36	5.76 U B, Z	5.81 U B, Z
OCDF	ng/kg	2.40 J Z	11.7 U B	11.4 U B	11.5 U B, Z	2.55 J Z	11.5 U B, Z	11.6 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.41 U B, Z	0.237 J Z	5.69 U B	5.77 U B, Z	5.71 U B, Z	5.76 U B, Z	5.81 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	0.219 J Z	5.76 U	5.81 U B, Z
2,3,7,8-TCDF	ng/kg	1.08 U B, Z	0.0719 J Z	1.14 U	1.15 U B, Z	0.197 J Z	1.15 U	1.16 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	5.71 U B, Z	5.76 U B, Z	5.81 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	0.531 J Z	5.76 U B, Z	5.81 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.41 U B, Z	0.225 J Z	5.69 U B	5.77 U B, Z	5.71 U B, Z	5.76 U B, Z	5.81 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	5.71 U B, Z	5.76 U B, Z	5.81 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	0.473 J Z	5.76 U B, Z	5.81 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.41 U B, Z	0.278 J Z	5.69 U B	5.77 U B, Z	0.258 J Z	5.76 U B, Z	5.81 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.69 J Z	5.85 U B	5.69 U B	5.77 U B, Z	1.64 J Z	5.76 U B, Z	5.81 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	2.08 J Z	5.76 U B, Z	5.81 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.41 U B, Z	5.85 U B	5.69 U B	5.77 U B, Z	5.71 U B, Z	5.76 U	5.81 U
Aroclor 1260	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	1.0 J Z	2.0 U	2.0 U	2.0 U	4.9 J S	2.0 U	2.0 U
Aroclor 1268	ug/kg	1.6 J Z	2.0 U	2.0 U	1.4 J Z	29 J S	2.0 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	4.7	3.9 U	3.8 U	1.7 J Z	30 J S	3.8 U	3.9 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.6 U	3.9 U	3.8 U	3.9 U	7.8 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.6 U	3.9 U	3.8 U	3.9 U	7.8 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0	SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/12/2011	05/02/2011	04/11/2011	04/29/2011
SDG		DX068	DX077	DX077	DX069	DX077	DX068	DX078
Start Depth		0	4	9	0	4	0	2
End Depth		0.5	5	10	0.5	5	0.5	3
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.18 U	1.14 U B, Z	1.12 U	1.12 U B, Z	1.17 U	1.15 UJ B, FD, Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.770 J Z	5.71 U B, Z	5.59 U B, Z	0.507 J Z	0.189 J Z	5.74 U B, Z	5.65 U B, Z
OCDD	ng/kg	267	11.4 U B, Z	11.2 U B, Z	63.3	11.7 U B, Z	672 J Q, E	49.1
1,2,3,4,6,7,8-HpCDD	ng/kg	26	5.71 U B, Z	5.59 U B, Z	8.04	5.85 U B, Z	61.6	4.59 J Z
OCDF	ng/kg	9.14 J Z	11.4 U B, Z	11.2 U B, Z	5.05 J Z	11.7 U B, Z	11.3 J Z	1.11 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.294 J Z	5.71 U B, Z	5.59 U B, Z	0.154 J Z	5.85 U B, Z	5.74 U B, Z	5.65 U
1,2,3,7,8-PeCDD	ng/kg	0.204 J Z	5.71 U B, Z	5.59 U B, Z	0.128 J Z	5.85 U B, Z	5.74 U B, Z	5.65 U B, Z
2,3,7,8-TCDF	ng/kg	2.34 Z	0.0173 J Z	0.0191 J Z	0.600 J Z	1.17 U	1.15 UJ B, FD, Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.90 U B, Z	5.71 U B, Z	5.59 U B, Z	5.62 U B, Z	5.85 U B, Z	5.74 U B, Z	5.65 U B, Z
2,3,4,7,8-PeCDF	ng/kg	1.02 J Z	5.71 U B, Z	5.59 U B, Z	0.475 J Z	5.85 U B, Z	5.74 U B, Z	5.65 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.322 J Z	5.71 U	5.59 U B, Z	1.89 J Z	5.85 U B, Z	5.74 U B, Z	0.380 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.416 J Z	5.71 U B, Z	5.59 U B, Z	0.290 J Z	5.85 U B, Z	5.74 U B, Z	0.0974 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1.25 J Z	5.71 U B, Z	5.59 U B, Z	0.663 J Z	5.85 U B, Z	2.14 J Z	0.165 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.412 J Z	5.71 U B, Z	5.59 U B, Z	5.62 U B, Z	5.85 U B, Z	5.74 U B, Z	5.65 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	3.62 J Z	5.71 U B, Z	5.59 U B, Z	2.19 J Z	5.85 U B, Z	7.59	0.598 J Z
1,2,3,4,7,8-HxCDF	ng/kg	3.51 J Z	5.71 U B, Z	5.59 U B, Z	1.09 J Z	5.85 U B, Z	2.22 J Z	0.629 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.90 U B, Z	5.71 U	5.59 U B, Z	5.62 U B, Z	5.85 U B, Z	5.74 U B, Z	5.65 U B, Z
Aroclor 1260	ug/kg	4.0 U	2.0 U	2.0 U	3.7	2.0 U	22	0.62 J S, Z
Aroclor 1254	ug/kg	75 J S	2.0 U	2.0 U	11	2.0 U	5.7	1.9 U
Aroclor 1268	ug/kg	11 J S	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	13 J S	3.9 U	3.8 U	1.9 J Z	3.9 U	20 J FD	3.8 U
Aroclor 1232	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	7.8 U	3.9 U	3.8 U	3.7 U	3.9 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 UJ FD	1.9 U
Aroclor 1016	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	7.8 U	3.9 U	3.8 U	3.7 U	3.9 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5	SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	04/11/2011
SDG		DX068	DX078	DX069	DX079	DX069	DX079	DX068
Start Depth		0	4	0	4	0	3	0
End Depth		0.5	5	0.5	5	0.5	4	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B, Z	1.14 U	1.14 U B, Z	1.17 U	1.13 U	1.12 U	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	5.68 U B, Z	5.69 U	0.405 J Z	0.0622 J Z	0.986 J Z	0.167 J Z	0.459 J Z
OCDD	ng/kg	11.2 J Z	11.4 U B, Z	38	11.7 U B, Z	165	11.2 U B, Z	53.4
1,2,3,4,6,7,8-HpCDD	ng/kg	1.69 J Z	5.69 U B, Z	5.02 J Z	5.84 U B, Z	18.2	5.62 U B, Z	6.43
OCDF	ng/kg	11.4 U B, Z	11.4 U B, Z	6.95 J Z	11.7 U B, Z	13.9	11.2 U B, Z	2.89 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.68 U B, Z	5.69 U B, Z	0.120 J Z	5.84 U	0.277 J Z	5.62 U B, Z	0.181 J Z
1,2,3,7,8-PeCDD	ng/kg	5.68 U B, Z	5.69 U B, Z	0.158 J Z	5.84 U	0.264 J Z	0.0649 J Z	5.45 U B, Z
2,3,7,8-TCDF	ng/kg	1.14 U B, Z	1.14 U	0.229 J Z	1.17 U	3.76 Z	1.12 U	0.588 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	5.71 U B, Z	5.84 U B, Z	0.455 J Z	5.62 U B, Z	5.45 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	0.537 J Z	5.84 U B, Z	1.62 J Z	5.62 U B, Z	1.13 J Z
1,2,3,7,8-PeCDF	ng/kg	5.68 U B, Z	5.69 U	1.83 J Z	5.84 U B, Z	11.5	5.62 U B, Z	0.235 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.68 U B, Z	0.0340 J Z	0.233 J Z	5.84 U B, Z	0.904 J Z	5.62 U B, Z	0.346 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.68 U B, Z	5.69 U B, Z	0.349 J Z	5.84 U B, Z	1.75 J Z	5.62 U B, Z	0.615 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	5.71 U B, Z	5.84 U B, Z	0.648 J Z	5.62 U B, Z	0.473 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	1.65 J Z	5.84 U B, Z	5.02 J Z	5.62 U B, Z	1.45 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	0.818 J Z	5.84 U B, Z	3.60 J Z	5.62 U B, Z	0.956 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.68 U B, Z	5.69 U B, Z	5.71 U B, Z	5.84 U	0.567 J Z	5.62 U B, Z	5.45 U B, Z
Aroclor 1260	ug/kg	0.56 J Z	1.9 U	3.9	2.0 U	20	1.9 U	3.7
Aroclor 1254	ug/kg	2.0 U	1.9 U	11	2.0 U	68	1.9 U	6.5
Aroclor 1268	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	2.5 J Z	3.9 U	19 U	3.8 U	9.6
Aroclor 1232	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.9 U	3.9 U	19 U	3.8 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	9.7 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.9 U	3.9 U	19 U	3.8 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-018-SA8N-SS-0.0-0.5	SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	04/12/2011
SDG		DX078	DX078	DX069	DX079	DX069	DX079	DX069
Start Depth		4	7	0	4	0	4	0
End Depth		5	8	0.5	5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	1.13 U	1.15 U	1.12 UJ FD	1.17 U B, Z	1.15 U	1.15 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.38 U B, Z	5.65 U	0.545 J Z	0.0775 J Z	0.745 J Z	0.169 J Z	0.646 J Z
OCDD	ng/kg	2.29 J Z	11.3 U B, Z	140	11.2 U B, Z	113	11.5 U B, Z	109
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U B, Z	5.65 U B, Z	12.8	5.60 U B, Z	13	5.73 U B, Z	12.9
OCDF	ng/kg	10.8 U B, Z	11.3 U B, Z	6.40 J Z	11.2 U B, Z	12.1	11.5 U B, Z	11.6
1,2,3,4,7,8-HxCDD	ng/kg	5.38 U	5.65 U	0.137 J Z	5.60 UJ B, FD, Z	0.291 J Z	5.73 U B, Z	0.186 J Z
1,2,3,7,8-PeCDD	ng/kg	5.38 U	5.65 U	5.77 U B, Z	0.0338 J FD, Z	0.167 J Z	5.73 U	5.73 U B, Z
2,3,7,8-TCDF	ng/kg	1.08 U	1.13 U	0.913 J Z	1.12 UJ FD	2/7/2012	1.15 U	2/2/2012
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	5.77 U B, Z	5.60 U B, Z	5.85 U B, Z	5.73 U B, Z	0.385 J Z
2,3,4,7,8-PeCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	0.614 J Z	5.60 UJ B, FD, Z	1.09 J Z	5.73 U B, Z	1.14 J Z
1,2,3,7,8-PeCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	2.32 J Z	5.60 UJ B, FD, Z	5.83 J Z	5.73 U B, Z	5.14 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.0214 J Z	0.0293 J Z	0.296 J Z	5.60 UJ B, FD, Z	0.586 J Z	5.73 U B, Z	0.467 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U B, Z	5.65 U	0.687 J Z	5.60 UJ B, FD, Z	1.22 J Z	5.73 U B, Z	1.02 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	5.77 U B, Z	5.60 U B, Z	0.373 J Z	5.73 U B, Z	0.310 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	2.35 J Z	5.60 U B, Z	3.88 J Z	5.73 U B, Z	3.67 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	1.16 J Z	5.60 UJ B, FD, Z	2.49 J Z	5.73 U B, Z	1.83 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B, Z	5.65 U B, Z	5.77 U B, Z	5.60 U B, Z	5.85 U B, Z	5.73 U B, Z	5.73 U B, Z
Aroclor 1260	ug/kg	1.9 U	0.72 J S, Z	4.3	1.9 U	11	2.0 U	7.9
Aroclor 1254	ug/kg	1.9 U	1.2 J S, Z	16	1.9 U	36	2.0 U	33
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 5460	ug/kg	3.7 U	3.9 U	2.2 J Z	3.7 U	20 U	3.8 U	7.6 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 5442	ug/kg	3.7 U	3.9 U	3.9 U	3.7 U	20 U	3.8 U	7.6 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	10 U	2.0 U	3.9 U
Aroclor 5432	ug/kg	3.7 U	3.9 U	3.9 U	3.7 U	20 U	3.8 U	7.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0	SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0
Sample Date		05/03/2011	05/03/2011	04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011
SDG		DX079	DX079	DX069	DX076	DX076	DX069	DX077
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.111 J Z	0.118 J Z	1.09 U	1.15 U	0.0408 J Z	1.15 U B, Z	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.248 J Z	0.105 J Z	0.509 J Z	0.157 J Z	0.527 J Z	0.775 J Z	0.163 J Z
OCDD	ng/kg	3.82 J Z	5.88 J Z	149	11.5 U B, Z	33.6	225	11.1 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.85 U B, Z	6.09 U B, Z	14.9	5.73 U B, Z	3.39 J Z	18.6	5.56 U B, Z
OCDF	ng/kg	11.7 U B, Z	1.09 J Z	11.5	11.5 U B, Z	1.59 J Z	15.7	11.1 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.85 U B, Z	6.09 U B, Z	0.159 J Z	5.73 U B, Z	0.253 J Z	0.369 J Z	5.56 U
1,2,3,7,8-PeCDD	ng/kg	0.215 J Z	0.244 J Z	0.139 J Z	0.108 J Z	0.355 J Z	0.237 J Z	5.56 U B, Z
2,3,7,8-TCDF	ng/kg	1.17 U	0.124 J Z	1.00 J Z	0.0475 J Z	1.15 U	1.32 Z	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	5.44 U B, Z	5.73 U B, Z	0.614 J Z	0.412 J Z	5.56 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	0.564 J Z	5.73 U B, Z	5.75 U B, Z	0.699 J Z	5.56 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.341 J Z	0.484 J Z	1.46 J Z	5.73 U B, Z	0.399 J Z	2.59 J Z	5.56 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	0.234 J Z	5.73 U B, Z	0.384 J Z	0.390 J Z	5.56 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.85 U B, Z	6.09 U B, Z	0.829 J Z	5.73 U B, Z	0.349 J Z	0.973 J Z	5.56 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	0.296 J Z	5.73 U B, Z	5.75 U B, Z	0.365 J Z	5.56 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	3.56 J Z	5.73 U B, Z	1.12 J Z	5.13 J Z	5.56 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.85 U B, Z	0.306 J Z	1.31 J Z	5.73 U B, Z	0.432 J Z	1.72 J Z	5.56 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.85 U B, Z	6.09 U B, Z	5.44 U B, Z	5.73 U B, Z	0.887 J Z	5.74 U B, Z	5.56 U B, Z
Aroclor 1260	ug/kg	2.0 U	2.1 U	6.1	2.0 U	2.0 U	11	2.0 U
Aroclor 1254	ug/kg	2.0 U	2.1 U	24	2.0 U	2.0 U	28	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	4.0 U	3.7 U	3.8 U	3.9 U	3.7 J Z	3.8 U
Aroclor 1232	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	4.0 U	3.7 U	3.8 U	3.9 U	7.7 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U	4.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	4.0 U	3.7 U	3.8 U	3.9 U	7.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8N-SB-9.0-10.0	SL-023-SA8N-SS-0.0-0.5	SL-023-SA8N-SB-4.0-5.0	SL-023-SA8N-SB-9.0-10.0	SL-027-SA8N-SS-0.0-0.5	SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0
Sample Date		05/02/2011	04/12/2011	05/02/2011	05/02/2011	04/13/2011	04/26/2011	04/26/2011
SDG		DX077	DX069	DX077	DX077	DX070	DX073	DX073
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.17 U	1.16 U B, Z	1.18 U B, Z	1.18 U B, Z	0.434 J Z	1.15 U B, Z	1.14 U
1,2,3,7,8,9-HxCDD	ng/kg	5.85 U B, Z	1.82 J Z	0.224 J Z	5.90 U B, Z	2.45 J Z	5.74 U B, Z	5.69 U B, Z
OCDD	ng/kg	3.07 J Z	681	11.8 U B, Z	29.5	866 J Q	11.5 U B, Z	16.2
1,2,3,4,6,7,8-HpCDD	ng/kg	5.85 U B, Z	74.2	5.89 U B, Z	3.65 J Z	104	5.74 U B, Z	1.27 J Z
OCDF	ng/kg	11.7 U B, Z	19.7	11.8 U B, Z	11.8 U B, Z	72.7 J FD	11.5 U B, Z	11.4 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.85 U B, Z	0.916 J Z	5.89 U B, Z	0.0923 J Z	0.989 J Z	5.74 U B, Z	5.69 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.85 U B, Z	0.531 J Z	5.89 U B, Z	5.90 U B, Z	1.27 J Z	5.74 U B, Z	5.69 U B, Z
2,3,7,8-TCDF	ng/kg	1.17 U	0.797 J Z	0.0180 J Z	1.18 U	1.43 Z	1.15 U	0.0188 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.85 U B, Z	0.647 J Z	5.89 U B, Z	5.90 U B, Z	1.65 J FD, Z	5.74 U B, Z	5.69 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.85 U B, Z	0.815 J Z	5.89 U B, Z	5.90 U B, Z	0.993 J Z	5.74 U B, Z	5.69 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.85 U B, Z	1.05 J Z	5.89 U B, Z	5.90 U B, Z	0.493 J FD, Z	5.74 U B, Z	5.69 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.85 U B, Z	0.723 J Z	5.89 U B, Z	5.90 U B, Z	1.09 J Z	5.74 U B, Z	5.69 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.85 U B, Z	3.07 J Z	5.89 U B, Z	0.211 J Z	4.59 J Z	5.74 U B, Z	5.69 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.85 U B, Z	0.911 J Z	5.89 U B, Z	5.90 U B, Z	0.966 J Z	5.74 U B, Z	5.69 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.85 U B, Z	9.37	5.89 U B, Z	5.90 U B, Z	24.4 J FD	5.74 U B, Z	5.69 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.85 U B, Z	1.25 J Z	5.89 U B, Z	5.90 U B, Z	2.17 J Z	5.74 U B, Z	5.69 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.85 U B, Z	0.553 J Z	5.89 U B, Z	5.90 U B, Z	5.77 U B, Z	5.74 U B, Z	5.69 U B, Z
Aroclor 1260	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1254	ug/kg	2.0 U	1.8 J Z	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	0.61 J Z	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.9 U	3.9 UJ C	3.9 U	4.0 U	190 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	3.9 U	3.9 U	4.0 U	190 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	100 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	3.9 U	3.9 U	4.0 U	190 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0	SL-032-SA8N-SB-9.0-10.0	SL-036-SA8N-SS-0.0-0.5
Sample Date		04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011	04/27/2011	04/12/2011
SDG		DX070	DX073	DX073	DX070	DX073	DX073	DX069
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	3.11	1.16 U	1.10 U B, Z	0.448 J Z	1.18 U B, Z	1.19 U B, Z	0.0397 J Z
1,2,3,7,8,9-HxCDD	ng/kg	14.5	5.80 U B, Z	5.51 U B, Z	8.29	5.91 U B, Z	0.243 J Z	0.480 J Z
OCDD	ng/kg	5190 J *#	11.6 U B, Z	11.0 U B, Z	3680	22.9	67.8	111
1,2,3,4,6,7,8-HpCDD	ng/kg	465	5.80 U B, Z	5.51 U B, Z	636	3.10 J Z	9.77	12.8
OCDF	ng/kg	64.8	11.6 U B, Z	11.0 U B, Z	75.9	1.21 J Z	3.30 J Z	5.47 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.22 J Z	5.80 U B, Z	5.51 U B, Z	3.11 J Z	5.91 U B, Z	0.149 J Z	0.226 J Z
1,2,3,7,8-PeCDD	ng/kg	7.19	5.80 U B, Z	5.51 U B, Z	2.09 J Z	5.91 U B, Z	5.97 U B, Z	0.179 J Z
2,3,7,8-TCDF	ng/kg	2.45 Z	0.0203 J Z	0.0244 J Z	0.963 J Z	0.0172 J Z	0.0386 J Z	0.316 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	2.36 J Z	5.80 U B, Z	5.51 U B, Z	3.08 J Z	5.91 U B, Z	5.97 U B, Z	5.93 U B, Z
2,3,4,7,8-PeCDF	ng/kg	3.43 J Z	5.80 U B, Z	5.51 U B, Z	1.16 J Z	5.91 U B, Z	5.97 U B, Z	0.475 J Z
1,2,3,7,8-PeCDF	ng/kg	2.68 J Z	5.80 U B, Z	5.51 U B, Z	1.98 J Z	5.91 U B, Z	0.323 J Z	0.162 J Z
1,2,3,6,7,8-HxCDF	ng/kg	2.95 J Z	5.80 U B, Z	5.51 U B, Z	1.88 J Z	5.91 U B, Z	5.97 U B, Z	0.212 J Z
1,2,3,6,7,8-HxCDD	ng/kg	17	5.80 U B, Z	5.51 U B, Z	17.7	5.91 U B, Z	0.487 J Z	0.739 J Z
2,3,4,6,7,8-HxCDF	ng/kg	2.59 J Z	5.80 U B, Z	5.51 U B, Z	2.35 J Z	5.91 U B, Z	5.97 U B, Z	5.93 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	26.9	5.80 U B, Z	5.51 U B, Z	32.8	0.539 J Z	1.37 J Z	2.64 J Z
1,2,3,4,7,8-HxCDF	ng/kg	4.62 J Z	5.80 U B, Z	5.51 U B, Z	1.90 J Z	5.91 U B, Z	5.97 U B, Z	0.418 J Z
1,2,3,7,8,9-HxCDF	ng/kg	1.34 J Z	5.80 U B, Z	5.51 U B, Z	0.625 J Z	5.91 U B, Z	5.97 U B, Z	5.93 U B, Z
Aroclor 1260	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	1.1 J Z
Aroclor 1254	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	1.5 J Z, *#
Aroclor 1268	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 1221	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 5460	ug/kg	4000 U	3.9 U	3.7 U	360 U	3.9 U	4.0 U	3.6 J Z, C
Aroclor 1232	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 5442	ug/kg	4000 U	3.9 U	3.7 U	360 U	3.9 U	4.0 U	4.0 U
Aroclor 1248	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 1016	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 1262	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 1242	ug/kg	2100 U	2.0 U	1.9 U	180 U	2.0 U	2.0 U	2.1 U
Aroclor 5432	ug/kg	4000 U	3.9 U	3.7 U	360 U	3.9 U	4.0 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0	SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0
Sample Date		04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011	04/28/2011	04/28/2011
SDG		DX073	DX073	DX071	DX078	DX078	DX074	DX074
Start Depth		4	9	0	4	9	4	9
End Depth		5	10	0.5	5	10	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.17 U B, Z	1.22 U	0.0349 J Z	1.19 UJ B, FD, Z	1.21 U B, Z	1.18 U	1.15 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.85 U B, Z	6.10 U B, Z	0.769 J Z	0.303 J Z	6.05 U B, Z	0.272 J Z	5.75 U B, Z
OCDD	ng/kg	11.7 U B, Z	12.2 U B, Z	220	2.43 J Z	3.80 J Z	11.8 U B, Z	11.5 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.85 U B, Z	6.10 U B, Z	20.7	5.94 U B, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
OCDF	ng/kg	11.7 U B, Z	12.2 U B, Z	7.48 J Z	11.9 U B, Z	12.1 U B, Z	11.8 U B, Z	11.5 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.85 U B, Z	6.10 U B, Z	0.183 J Z	0.138 J FD, Z	0.178 J Z	5.89 U B, Z	5.75 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.85 U B, Z	6.10 U B, Z	0.157 J Z	0.269 J FD, Z	0.328 J Z	5.89 U B, Z	5.75 U B, Z
2,3,7,8-TCDF	ng/kg	1.17 U	1.22 U	0.109 J Z	1.19 UJ B, FD, Z	1.21 U B, Z	1.18 U	0.0267 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.264 J Z	5.94 UJ B, FD, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.624 J Z	5.94 UJ B, FD, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.374 J Z	0.299 J FD, Z	0.351 J Z	5.89 U B, Z	5.75 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.279 J Z	0.196 J FD, Z	0.207 J Z	5.89 U B, Z	5.75 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.85 U B, Z	6.10 U B, Z	1.03 J Z	0.180 J FD, Z	0.157 J Z	5.89 U B, Z	5.75 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.379 J Z	5.94 UJ B, FD, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	2.67 J Z	5.94 UJ B, FD, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	5.38 U B, Z	5.94 UJ B, FD, Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.85 U B, Z	6.10 U B, Z	0.442 J Z	0.457 J Z	6.05 U B, Z	5.89 U B, Z	5.75 U B, Z
Aroclor 1260	ug/kg	2.0 U	2.1 U	0.65 J Z	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	2.1 U	1.3 J Z	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	4.1 U	3.6 U	4.0 U	4.0 U	3.9 U	3.9 U
Aroclor 1232	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	4.1 U	3.6 U	4.0 U	4.0 U	3.9 U	3.9 U
Aroclor 1248	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.1 U	1.8 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	4.1 U	3.6 U	4.0 U	4.0 U	3.9 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5	SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5
Sample Date		04/13/2011	04/12/2011	04/12/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011
SDG		DX070	DX069	DX069	DX068	DX078	DX078	DX069
Start Depth		0	0	0	0	4	8	0
End Depth		0.5	0.5	0.5	0.5	5	9	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0715 J Z	1.17 U	1.26 U	1.07 U	1.12 U B, Z	1.16 U B, Z	1.17 U
1,2,3,7,8,9-HxCDD	ng/kg	1.01 J Z	0.374 J Z	0.370 J Z	0.176 J Z	5.58 U B, Z	5.80 U B, Z	0.329 J Z
OCDD	ng/kg	284	132	42	32	11.2 U B, Z	11.6 U B, Z	56
1,2,3,4,6,7,8-HpCDD	ng/kg	32.9	14.5	4.14 J Z	3.03 J Z	5.58 U B, Z	5.80 U B, Z	6.63
OCDF	ng/kg	19.4	10.2 J Z	7.83 J Z	2.30 J Z	11.2 U B, Z	11.6 U B, Z	6.61 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.458 J Z	0.151 J Z	6.29 U B, Z	0.108 J Z	5.58 U B, Z	5.80 U B, Z	0.118 J Z
1,2,3,7,8-PeCDD	ng/kg	0.342 J Z	0.101 J Z	0.0929 J Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	5.84 U B, Z
2,3,7,8-TCDF	ng/kg	0.233 J Z	0.658 J Z	0.669 J Z	0.216 J Z	1.12 U B, Z	1.16 U B, Z	0.499 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.499 J Z	5.83 U B, Z	6.29 U B, Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	5.84 U B, Z
2,3,4,7,8-PeCDF	ng/kg	0.500 J Z	0.552 J Z	0.431 J Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	0.404 J Z
1,2,3,7,8-PeCDF	ng/kg	0.628 J Z	0.145 J Z	0.378 J Z	5.36 U	5.58 U B, Z	5.80 U B, Z	0.727 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.454 J Z	5.83 U B, Z	6.29 U B, Z	5.36 U B, Z	0.0713 J Z	0.0484 J Z	5.84 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	1.14 J Z	0.485 J Z	0.351 J Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	0.391 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.561 J Z	5.83 U B, Z	6.29 U B, Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	5.84 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	8.55	2.85 J Z	1.77 J Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	1.83 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.623 J Z	1.04 J Z	0.718 J Z	0.527 J Z	5.58 U B, Z	5.80 U B, Z	0.684 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.285 J Z	5.83 U B, Z	6.29 U B, Z	5.36 U B, Z	5.58 U B, Z	5.80 U B, Z	5.84 U B, Z
Aroclor 1260	ug/kg	1.5 J Z	3.2	2.2 U	0.99 J Z	1.9 U	2.0 U	1.7 J Z
Aroclor 1254	ug/kg	1.8 J Z	13	1.1 J Z	1.7 J Z	1.9 U	2.0 U	3.2
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5460	ug/kg	2.2 J Z	1.6 J Z, C	4.2 UJ C	3.7 U	3.7 U	3.9 U	2.7 J Z, C
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5442	ug/kg	3.6 U	3.9 U	4.2 U	3.7 U	3.7 U	3.9 U	4.0 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.2 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5432	ug/kg	3.6 U	3.9 U	4.2 U	3.7 U	3.7 U	3.9 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0	SL-051-SA8N-SB-7.5-8.5	SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5
Sample Date		05/02/2011	05/02/2011	06/17/2011	04/18/2011	05/05/2011	05/05/2011	04/18/2011
SDG		DX077	DX077	DX103	DX070	DX079	DX079	DX070
Start Depth		4	9	7.5	0	4	7	0
End Depth		5	10	8.5	0.5	5	8	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B, Z	1.18 U B, Z	0.0618 J Z	1.16 U B, Z	1.14 U	1.06 U	1.11 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	0.261 J Z	5.90 U B, Z	0.812 J Z	0.280 J Z	0.395 J Z	0.0394 J Z	5.57 U B, Z
OCDD	ng/kg	11.4 U B, Z	11.8 U B, Z	264	82.5	2.06 J Z	10.6 U B, Z	15.7
1,2,3,4,6,7,8-HpCDD	ng/kg	5.72 U B, Z	5.90 U B, Z	12.1	5.67 J Z	5.71 U B, Z	5.32 U B, Z	1.24 J Z
OCDF	ng/kg	11.4 U B, Z	11.8 U B, Z	8.55 J Z	14.1	11.4 U B, Z	10.6 U B, Z	6.38 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0825 J Z	5.90 U B, Z	0.170 J Z	5.79 U B, Z	5.71 U	5.32 U B, Z	5.57 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.72 U B, Z	5.90 U B, Z	0.317 J Z	5.79 U B, Z	0.0647 J Z	0.0348 J Z	5.57 U B, Z
2,3,7,8-TCDF	ng/kg	0.0521 J Z	0.0575 J Z	1/16/2012	0.335 J Z	1.14 U	1.06 U	0.133 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	0.404 J Z	5.79 U B, Z	5.71 U B, Z	5.32 U B, Z	5.57 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	0.950 J Z	0.383 J Z	5.71 U B, Z	5.32 U B, Z	5.57 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.222 J Z	0.214 J Z	0.610 J Z	1.60 J Z	5.71 U B, Z	5.32 U B, Z	1.18 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	0.441 J Z	0.209 J Z	5.71 U B, Z	5.32 U B, Z	5.57 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	0.192 J Z	5.90 U B, Z	1.14 J Z	0.335 J Z	5.71 U B, Z	5.32 U B, Z	5.57 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	5.32 U B	5.79 U B, Z	5.71 U B, Z	5.32 U B, Z	5.57 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	4.15 J Z	2.67 J Z	5.71 U B, Z	5.32 U B, Z	1.12 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	0.770 J Z	0.487 J Z	5.71 U B, Z	5.32 U B, Z	0.388 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.72 U B, Z	5.90 U B, Z	0.718 J Z	5.79 U B, Z	0.437 J Z	5.32 U B, Z	5.57 U B, Z
Aroclor 1260	ug/kg	2.0 U	2.0 U	4.2	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	2.0 U	2.0 U	16	3.3 J *#	37	1.8 U	4.3
Aroclor 1268	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.9 U	3.9 U	3.6 U	2.7 J Z	19 U	3.5 U	3.7 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	3.9 U	3.6 U	3.8 U	19 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	9.7 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	3.9 U	3.6 U	3.8 UJ C	19 U	3.5 U	3.7 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-062-SA8N-SS-0.0-0.5	SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5
Sample Date		05/05/2011	05/05/2011	04/15/2011	05/05/2011	04/15/2011	05/04/2011	04/18/2011
SDG		DX079	DX079	DX072	DX079	DX072	DX076	DX070
Start Depth		4	7	0	4	0	4	0
End Depth		5	8	0.5	5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0423 J Z	0.0501 J Z	1.13 U	0.0395 J Z	1.20 U	1.19 U	1.17 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	0.0589 J Z	0.0355 J Z	5.67 U B, Z	0.0610 J Z	5.98 U B, Z	0.0996 J Z	1.24 J Z
OCDD	ng/kg	11.5 U B, Z	10.9 U B, Z	17.7	3.94 J Z	48.2	4.13 J Z	26.5
1,2,3,4,6,7,8-HpCDD	ng/kg	5.77 U B, Z	5.44 U B, Z	1.56 J Z	5.74 U B, Z	4.73 J Z	5.96 U B, Z	3.76 J Z
OCDF	ng/kg	11.5 U B, Z	10.9 U B, Z	6.87 J Z	11.5 U B, Z	9.02 J Z	11.9 U B, Z	1.93 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.77 U B, Z	5.44 U	5.67 U B, Z	5.74 U B, Z	5.98 U B, Z	5.96 U	5.84 U B, Z
1,2,3,7,8-PeCDD	ng/kg	0.168 J Z	0.131 J Z	5.67 U B, Z	0.0525 J Z	5.98 U B, Z	5.96 U	5.84 U B, Z
2,3,7,8-TCDF	ng/kg	1.15 U	0.0728 J Z	0.120 J Z	1.15 U	0.198 J Z	1.19 U	0.436 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U B, Z	5.98 U B, Z	5.96 U B, Z	5.84 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U B, Z	5.98 U B, Z	0.520 J Z	0.813 J Z
1,2,3,7,8-PeCDF	ng/kg	0.254 J Z	5.44 U B, Z	0.331 J Z	5.74 U B, Z	0.621 J Z	1.49 J Z	0.950 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U B, Z	5.98 U B, Z	5.96 U B, Z	0.298 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U B, Z	0.253 J Z	5.96 U B, Z	0.872 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U B, Z	5.98 U B, Z	5.96 U B, Z	0.326 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	1.60 J Z	5.74 U B, Z	2.01 J Z	5.96 U B, Z	1.10 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	0.445 J Z	0.390 J Z	0.584 J Z	0.457 J Z	0.342 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.77 U B, Z	5.44 U B, Z	5.67 U B, Z	5.74 U	5.98 U B, Z	5.96 U B, Z	5.84 U B, Z
Aroclor 1260	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	0.58 J Z	2.0 U	1.6 J Z
Aroclor 1254	ug/kg	0.93 J Z	1.9 U	2.5 J Z	2.2	1.4 J Z	5.1	2.4
Aroclor 1268	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.6 U	19 U	3.8 U	4.0 U	4.0 U	2.0 J Z
Aroclor 1232	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.6 U	19 U	3.8 U	4.0 U	4.0 U	3.9 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	9.6 U	2.0 U	2.1 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.6 U	19 U	3.8 U	4.0 U	4.0 U	3.9 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5	SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5
Sample Date		06/07/2011	04/19/2011	04/19/2011	06/08/2011	06/08/2011	04/19/2011	04/14/2011
SDG		DX099	DX071	DX071	DX100	DX100	DX071	DX071
Start Depth		2	0	0	4	7.5	0	0
End Depth		3	0.5	0.5	5	8.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0498 J Z	1.16 U	1.12 U	1.11 UJ B, FD	0.0146 J Z	1.27 U B, Z	1.15 U
1,2,3,7,8,9-HxCDD	ng/kg	1.68 J Z	5.81 U B, Z	0.722 J Z	5.54 U B	5.64 U B	1.87 J Z	5.75 U B, Z
OCDD	ng/kg	10.5 U B	24	97.1	12.7	11.3 U B	849	10.6 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.27 U B	2.06 J Z	9.11	5.54 U B	5.64 U B	75.3	5.75 U B, Z
OCDF	ng/kg	10.5 U B	2.31 J Z	1.60 J Z	11.1 U B	11.3 U B	24.3	11.5 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0738 J Z	5.81 U B, Z	5.58 U B, Z	5.54 UJ B, FD	5.64 U	1.13 J Z	5.75 U
1,2,3,7,8-PeCDD	ng/kg	0.286 J Z	5.81 U B, Z	5.58 U B, Z	0.0871 J FD, Z	5.64 U B	0.537 J Z	5.75 U B, Z
2,3,7,8-TCDF	ng/kg	0.0758 J Z	1.16 U B, Z	1/14/2012	0.118 J FD, Z	1.13 U	1.44 Z	0.130 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.27 U B	5.81 U B, Z	5.58 U B, Z	5.54 U B	5.64 U B	1.38 J Z	5.75 U
2,3,4,7,8-PeCDF	ng/kg	5.27 U B	5.81 U B, Z	1.06 J Z	0.369 J FD, Z	5.64 U B	1.12 J Z	5.75 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.311 J Z	1.31 J Z	0.936 J Z	0.167 J FD, Z	5.64 U B	0.290 J Z	0.746 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.186 J Z	5.81 U B, Z	5.58 U B, Z	0.0805 J FD, Z	5.64 U B	0.781 J Z	0.0915 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.966 J Z	5.81 U B, Z	0.458 J Z	5.54 U B	5.64 U B	2.90 J Z	5.75 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.27 U B	5.81 U B, Z	5.58 U B, Z	5.54 UJ B, FD	5.64 U B	0.920 J Z	5.75 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.27 U B	0.648 J Z	0.898 J Z	5.54 U B	5.64 U B	10.9	5.75 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.27 U B	0.336 J Z	1.75 J Z	0.593 J Z	5.64 U B	2.35 J Z	0.376 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.391 J Z	5.81 U B, Z	0.441 J Z	5.54 U B	5.64 U B	0.553 J Z	5.75 U B, Z
Aroclor 1260	ug/kg	1.8 U	2.0 U	9.5 U	3.4 J *#	1.9 U	11 U	1.0 J Z
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	28	1.9 U	1.9 U	28	2.9
Aroclor 1268	ug/kg	1.8 U	2.0 U	9.5 U	1.9 U	1.9 U	11 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	2.0 U	9.5 U	1.9 UJ C	1.9 UJ C	11 U	2.0 U
Aroclor 5460	ug/kg	3.6 U	3.8 U	7.5 J Z	3.7 UJ C	3.8 UJ C	21 U	3.8 U
Aroclor 1232	ug/kg	1.8 U	2.0 U	9.5 U	1.9 UJ C	1.9 UJ C	11 U	2.0 U
Aroclor 5442	ug/kg	3.6 U	3.8 U	18 U	3.7 U	3.8 U	21 U	3.8 U
Aroclor 1248	ug/kg	1.8 U	2.0 U	9.5 U	1.9 U	1.9 U	11 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	2.0 U	9.5 U	1.9 UJ C	1.9 UJ C	11 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	2.0 U	9.5 U	1.9 U	1.9 U	11 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	2.0 U	9.5 U	1.9 U	1.9 U	11 U	2.0 U
Aroclor 5432	ug/kg	3.6 U	3.8 U	18 U	3.7 U	3.8 U	21 U	3.8 U

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R - Result is rejected

Sample Name		SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0	SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5
Sample Date		05/09/2011	04/14/2011	06/06/2011	06/06/2011	04/18/2011	05/04/2011	04/14/2011
SDG		DX080	DX071	DX099	DX099	DX070	DX076	DX071
Start Depth		4	0	4	9	0	4	0
End Depth		5	0.5	5	10	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	0.0453 J Z	1.14 U	0.0437 J Z	1.21 U	1.10 U	0.0262 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.45 U B, Z	1.44 J Z	5.69 U B	5.80 U B	6.04 U B, Z	5.51 U B, Z	2.01 J Z
OCDD	ng/kg	10.9 U B, Z	180	11.4 U B	11.6 U B	58	11.0 U B, Z	138
1,2,3,4,6,7,8-HpCDD	ng/kg	5.45 U B, Z	22.3	5.69 U B	5.80 U B	5.02 J Z	5.51 U B, Z	15.5
OCDF	ng/kg	10.9 U B, Z	6.41 J Z	11.4 U B	11.6 U B	10.0 J Z	11.0 U B, Z	4.86 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.45 U B, Z	0.401 J Z	0.0155 J Z	0.0872 J Z	6.04 U B, Z	5.51 U B, Z	0.303 J Z
1,2,3,7,8-PeCDD	ng/kg	5.45 U B, Z	0.350 J Z	0.0348 J Z	0.202 J Z	6.04 U B, Z	5.51 U B, Z	0.341 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	0.733 J Z	1.14 U	0.0841 J Z	0.731 J Z	1.10 U	18.9 Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.45 U B, Z	0.324 J Z	5.69 U B	5.80 U B	6.04 U B, Z	5.51 U B, Z	0.380 J Z
2,3,4,7,8-PeCDF	ng/kg	5.45 U B, Z	1.15 J Z	5.69 U B	5.80 U B	0.781 J Z	5.51 U B, Z	1.83 J Z
1,2,3,7,8-PeCDF	ng/kg	5.45 U B, Z	0.610 J Z	5.69 U B	0.250 J Z	2.67 J Z	5.51 U B, Z	8.88
1,2,3,6,7,8-HxCDF	ng/kg	5.45 U B, Z	0.509 J Z	5.69 U B	0.139 J Z	0.316 J Z	5.51 U B, Z	0.931 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.45 U B, Z	1.48 J Z	5.69 U B	5.80 U B	0.279 J Z	5.51 U B, Z	1.65 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.45 U B, Z	0.535 J Z	5.69 U B	0.0910 J Z	0.416 J Z	5.51 U B, Z	0.571 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.45 U B, Z	3.29 J Z	5.69 U B	5.80 U B	2.29 J Z	5.51 U B, Z	3.31 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.45 U B, Z	0.901 J Z	5.69 U B	5.80 U B	0.616 J Z	5.51 U B, Z	3.63 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.45 U B, Z	0.785 J Z	5.69 U B	5.80 U B	6.04 U B, Z	5.51 U B, Z	0.927 J Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	3	2.0 U	7.7
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	8.7	2.0 U	27
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 5460	ug/kg	3.7 U	4.0 U	3.8 U	3.9 UJ E	2.9 J Z	3.8 U	44
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 5442	ug/kg	3.7 U	4.0 U	3.8 U	3.9 UJ E	4.0 U	3.8 U	7.3 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	3.8 U
Aroclor 5432	ug/kg	3.7 U	4.0 U	3.8 U	3.9 UJ E	4.0 UJ C	3.8 U	7.3 U

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Sample Name		SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SS-0.0-0.5	SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0	SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	04/18/2011	05/06/2011	05/09/2011	05/09/2011	05/09/2011	04/14/2011
SDG		DX070	DX070	DX079	DX080	DX080	DX080	DX071
Start Depth		0	0	6.5	4	9	3	0
End Depth		0.5	0.5	7.5	5	10	4	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B, Z	1.15 U	1.08 U	1.13 U	1.14 U B, Z	1.13 U B, Z	1.17 U
1,2,3,7,8,9-HxCDD	ng/kg	1.06 J Z	5.76 U B, Z	0.0609 J Z	0.211 J Z	5.72 U B, Z	0.559 J Z	1.13 J Z
OCDD	ng/kg	664	20.3	3.53 J Z	11.3 U B, Z	11.4 U B, Z	11.3 U B, Z	37.7
1,2,3,4,6,7,8-HpCDD	ng/kg	60.9	1.69 J Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	4.15 J Z
OCDF	ng/kg	25.3	4.43 J Z	2.64 J Z	11.3 U B, Z	11.4 U B, Z	11.3 U B, Z	1.18 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.494 J Z	5.76 U B, Z	5.41 U	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	5.83 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.72 U B, Z	5.76 U B, Z	5.41 U	5.66 U B, Z	5.72 U B, Z	0.218 J Z	0.127 J Z
2,3,7,8-TCDF	ng/kg	2.57 Z	1.15 U B, Z	1.08 U	1.13 U	1.14 U	1.13 U	0.0753 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.831 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	5.83 U B, Z
2,3,4,7,8-PeCDF	ng/kg	2.74 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	5.83 U B, Z
1,2,3,7,8-PeCDF	ng/kg	7.91	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	0.250 J Z
1,2,3,6,7,8-HxCDF	ng/kg	1.20 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	0.160 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1.92 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	0.414 J Z	0.810 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.955 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	0.154 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	11	1.11 J Z	1.05 J Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	0.653 J Z
1,2,3,4,7,8-HxCDF	ng/kg	2.95 J Z	0.254 J Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	5.67 U B, Z	5.83 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	0.658 J Z	5.76 U B, Z	5.41 U B, Z	5.66 U B, Z	5.72 U B, Z	0.552 J Z	1.01 J Z
Aroclor 1260	ug/kg	13	0.72 J Z	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1254	ug/kg	40	0.76 J Z	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	19 U	3.9 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U
Aroclor 1232	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	19 U	3.9 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	9.8 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	19 UJ C	3.9 UJ C	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-090-SA8N-SS-0.0-0.5	SL-091-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-094-SA8N-SB-7.5-8.5
Sample Date		04/14/2011	04/14/2011	04/19/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011
SDG		DX071	DX071	DX071	DX071	DX072	DX081	DX081
Start Depth		0	0	0	0	0	4	7.5
End Depth		0.5	0.5	0.5	0.5	0.5	5	8.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0196 J Z	1.19 U	1.11 U	1.13 U B, Z	1.07 U B, Z	1.19 U B, Z	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	1.52 J Z	0.977 J Z	0.715 J Z	0.898 J Z	0.467 J Z	1.02 J Z	5.52 U B, Z
OCDD	ng/kg	106	75.8	21.7	36.3	24.7	2.12 J Z	11.0 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	12.3	8.23	2.82 J Z	5.39 J Z	2.63 J Z	5.95 U B, Z	5.52 U B, Z
OCDF	ng/kg	3.33 J Z	3.22 J Z	1.25 J Z	2.52 J Z	10.7 U B, Z	11.9 U B, Z	11.0 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.144 J Z	0.186 J Z	5.57 U B, Z	5.65 U B, Z	5.35 U B, Z	5.95 U	5.52 U
1,2,3,7,8-PeCDD	ng/kg	0.217 J Z	0.166 J Z	5.57 U B, Z	5.65 U B, Z	5.35 U B, Z	5.95 U B, Z	5.52 U
2,3,7,8-TCDF	ng/kg	0.172 J Z	4.40 Z	0.457 J Z	1/22/2012	0.125 J Z	0.0606 J Z	0.0195 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.91 U B, Z	5.94 U B, Z	5.57 U B, Z	5.65 U B, Z	5.35 U B, Z	5.95 U B, Z	5.52 U B, Z
2,3,4,7,8-PeCDF	ng/kg	0.395 J Z	1.18 J Z	0.709 J Z	1.79 J Z	5.35 U B, Z	5.95 U	5.52 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.247 J Z	1.59 J Z	0.462 J Z	2.64 J Z	0.276 J Z	0.313 J Z	5.52 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	0.259 J Z	0.313 J Z	5.57 U B, Z	0.464 J Z	5.35 U B, Z	5.95 U B, Z	5.52 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	1.28 J Z	0.898 J Z	0.519 J Z	0.859 J Z	0.344 J Z	0.584 J Z	5.52 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	0.208 J Z	0.370 J Z	5.57 U B, Z	0.431 J Z	5.35 U B, Z	5.95 U B, Z	5.52 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	2.43 J Z	1.97 J Z	0.734 J Z	1.42 J Z	5.35 U B, Z	5.95 U B, Z	5.52 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.91 U B, Z	1.88 J Z	0.483 J Z	1.32 J Z	0.296 J Z	5.95 U B, Z	5.52 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	0.798 J Z	0.462 J Z	5.57 U B, Z	5.65 U B, Z	0.575 J Z	1.47 J Z	5.52 U B, Z
Aroclor 1260	ug/kg	0.65 J Z	1.8 J Z	1.9 U	6.9 J Z	0.79 J Z	2.0 U	1.9 U
Aroclor 1254	ug/kg	0.89 J Z	5.7	1.2 J Z	13	1.1 J Z	2.0 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	1.3 J Z	5.7	1.4 J Z	7.6 J Z	2.7 J Z	3.9 U	3.7 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	3.9 U	3.7 U	19 U	3.6 U	3.9 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	1.9 U	9.7 U	1.8 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	3.9 U	3.7 U	19 U	3.6 U	3.9 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-095-SA8N-SS-0.0-0.5	SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SS-0.0-0.5	SL-096-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-9.0-10.0	SL-097-SA8N-SS-0.0-0.5	SL-097-SA8N-SB-4.0-5.0
Sample Date		04/19/2011	05/13/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011	05/12/2011
SDG		DX072	DX081	DX072	DX081	DX081	DX072	DX080
Start Depth		0	4	0	4	9	0	4
End Depth		0.5	5	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U B, Z	1.13 U	1.06 U	1.17 U	1.14 U	1.14 U	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.388 J Z	5.65 U B, Z	0.428 J Z	0.375 J Z	0.504 J Z	0.714 J Z	5.63 U B, Z
OCDD	ng/kg	26.5	11.3 U B, Z	26	11.7 U B, Z	11.4 U B, Z	29.5	11.3 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	2.68 J Z	5.65 U B, Z	2.87 J Z	5.83 U B, Z	5.72 U B, Z	3.09 J Z	5.63 U B, Z
OCDF	ng/kg	11.3 U B, Z	11.3 U B, Z	1.21 J Z	11.7 U B, Z	11.4 U B, Z	1.42 J Z	11.3 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U	5.72 U B, Z	5.63 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
2,3,7,8-TCDF	ng/kg	1.13 U B, Z	1.13 U	1.06 U B, Z	1.17 U	1.14 U	0.136 J Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	0.295 J Z	5.65 U B, Z	0.335 J Z	5.83 U B, Z	0.286 J Z	0.481 J Z	5.63 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	5.32 U B, Z	5.83 U B, Z	5.72 U B, Z	5.72 U B, Z	5.63 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	0.240 J Z	5.65 U B, Z	0.337 J Z	5.83 U B, Z	5.72 U B, Z	0.333 J Z	5.63 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.63 U B, Z	5.65 U B, Z	0.459 J Z	0.585 J Z	5.72 U B, Z	0.804 J Z	5.63 U B, Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	0.65 J Z	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	0.94 J Z	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	3.5 U	3.9 U	3.8 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	3.5 U	3.9 U	3.8 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	3.5 U	3.9 U	3.8 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA8N-SS-0.0-0.5	SL-098-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-9.0-10.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0	SL-101-SA8N-SB-7.0-8.0
Sample Date		04/20/2011	05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011	05/12/2011
SDG		DX074	DX080	DX080	DX080	DX074	DX080	DX080
Start Depth		0	4	9	4	0	4	7
End Depth		0.5	5	10	5	0.5	5	8
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0429 J Z	1.16 U B, Z	1.13 U B, Z	1.13 U B, Z	0.0848 J Z	1.15 U	1.18 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	0.493 J Z	5.82 U B, Z	0.195 J Z	5.67 U B, Z	0.811 J Z	0.265 J Z	5.89 U B, Z
OCDD	ng/kg	44.7	11.6 U B, Z	11.3 U B, Z	11.3 U B, Z	101	11.5 U B, Z	11.8 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	4.66 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	10.3	5.73 U B, Z	5.89 U B, Z
OCDF	ng/kg	2.41 J Z	11.6 U B, Z	11.3 U B, Z	11.3 U B, Z	5.66 J Z	11.5 U B, Z	11.8 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.118 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.344 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,7,8-PeCDD	ng/kg	6.02 U B, Z	0.296 J Z	0.249 J Z	5.67 U B, Z	0.394 J Z	5.73 U B, Z	5.89 U B, Z
2,3,7,8-TCDF	ng/kg	0.177 J Z	0.0597 J Z	0.0561 J Z	0.0243 J Z	0.849 J Z	0.0248 J Z	1.18 U
1,2,3,4,7,8,9-HpCDF	ng/kg	6.02 U B, Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.241 J Z	5.73 U B, Z	5.89 U B, Z
2,3,4,7,8-PeCDF	ng/kg	6.02 U B, Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	1.42 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.251 J Z	0.325 J Z	0.282 J Z	5.67 U B, Z	0.598 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	6.02 U B, Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.465 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	0.469 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.874 J Z	5.73 U B, Z	5.89 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	6.02 U B, Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.570 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.993 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	3.20 J Z	0.909 J Z	5.89 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	0.315 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	1.20 J Z	5.73 U B, Z	5.89 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	0.443 J Z	5.82 U B, Z	5.67 U B, Z	5.67 U B, Z	0.453 J Z	5.73 U B, Z	5.89 U B, Z
Aroclor 1260	ug/kg	0.59 J Z	2.0 U	2.0 U	1.9 U	2.1	2.0 U	2.0 U
Aroclor 1254	ug/kg	0.92 J Z	2.0 U	2.0 U	1.9 U	1.4 J Z	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	4.0 U	3.9 U	3.9 U	3.8 U	3.5 J Z	3.9 U	3.9 U
Aroclor 1232	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	4.0 U	3.9 U	3.9 U	3.8 U	3.8 U	3.9 U	3.9 U
Aroclor 1248	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.1 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	4.0 U	3.9 U	3.9 U	3.8 U	3.8 U	3.9 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-104-SA8N-SB-9.0-10.0	SL-105-SA8N-SB-4.0-5.0	SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5
Sample Date		04/20/2011	05/12/2011	05/13/2011	05/13/2011	05/10/2011	06/08/2011	04/20/2011
SDG		DX074	DX080	DX081	DX081	DX079	DX100	DX074
Start Depth		0	3	4	9	4	2.5	0
End Depth		0.5	4	5	10	5	3.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0521 J Z	1.15 U B, Z	1.11 U B, Z	1.16 U	1.15 U B, Z	0.0172 J Z	0.287 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.552 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	0.638 J Z	5.74 U B	8.17
OCDD	ng/kg	83.1	11.5 U B, Z	11.1 U B, Z	11.6 U B, Z	11.5 U B, Z	11.5 U B	1940
1,2,3,4,6,7,8-HpCDD	ng/kg	8.85	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	203
OCDF	ng/kg	2.89 J Z	11.5 U B, Z	11.1 U B, Z	11.6 U B, Z	11.5 U B, Z	11.5 U B	66.5
1,2,3,4,7,8-HxCDD	ng/kg	0.215 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	4.32 J Z
1,2,3,7,8-PeCDD	ng/kg	5.72 U B, Z	5.77 U	5.54 U B, Z	5.81 U	5.74 U B, Z	5.74 U	2.68 J Z
2,3,7,8-TCDF	ng/kg	0.679 J Z	1.15 U	1.11 U	1.16 U	1.15 U	1.15 U	0.782 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.72 U B, Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U	2.32 J Z
2,3,4,7,8-PeCDF	ng/kg	0.656 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	2.04 J Z
1,2,3,7,8-PeCDF	ng/kg	0.362 J Z	5.77 U B, Z	5.54 U B, Z	0.170 J Z	0.182 J Z	5.74 U B	0.700 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	2.24 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.588 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	0.355 J Z	5.74 U	8.92
2,3,4,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	2.80 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.38 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	34.3
1,2,3,4,7,8-HxCDF	ng/kg	0.790 J Z	5.77 U B, Z	5.54 U B, Z	5.81 U B, Z	5.74 U B, Z	5.74 U B	2.06 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.334 J Z	5.77 U	5.54 U B, Z	5.81 U B, Z	0.781 J Z	5.74 U B	0.647 J Z
Aroclor 1260	ug/kg	2.7	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	12
Aroclor 1254	ug/kg	4.9	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	17
Aroclor 1268	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.7 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 UJ C	1.7 U
Aroclor 5460	ug/kg	3.3 J Z	3.9 U	3.8 U	3.9 U	3.9 U	3.8 UJ C	14
Aroclor 1232	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 UJ C	1.7 U
Aroclor 5442	ug/kg	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U	3.3 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.7 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 UJ C	1.7 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.7 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.7 U
Aroclor 5432	ug/kg	3.8 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0	SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5
Sample Date		06/08/2011	06/08/2011	04/21/2011	06/10/2011	04/21/2011	04/21/2011	04/21/2011
SDG		DX100	DX100	DX076	DX101	DX076	DX076	DX076
Start Depth		4	9	0	3	0	0	0
End Depth		5	10	0.5	4	0.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U	1.15 U	1.13 U	1.06 U	0.0322 J Z	0.280 J Z	0.0806 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.71 U B	5.73 U B	1.09 J Z	5.29 U B	0.495 J Z	5.78	2.11 J Z
OCDD	ng/kg	11.4 U B	11.5 U B	267	5.17 J Z	53.4	2200	594
1,2,3,4,6,7,8-HpCDD	ng/kg	5.71 U B	5.73 U B	25.7	5.29 U B	5.60 J Z	267	78.3
OCDF	ng/kg	11.4 U B	11.5 U B	6.78 J Z	10.6 U B	1.76 J Z	55.6	12.2
1,2,3,4,7,8-HxCDD	ng/kg	5.71 U B	5.73 U	0.379 J Z	0.0523 J Z	5.67 U B, Z	3.20 J Z	0.952 J Z
1,2,3,7,8-PeCDD	ng/kg	5.71 U	5.73 U B	0.262 J Z	5.29 U B	5.67 U B, Z	1.42 J Z	0.728 J Z
2,3,7,8-TCDF	ng/kg	1.14 U	1.15 U B	0.800 J Z	0.0454 J Z	0.259 J Z	1.89 Z	1.20 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.71 U B	5.73 U B	5.63 U B, Z	5.29 U B	5.67 U B, Z	2.08 J Z	0.915 J Z
2,3,4,7,8-PeCDF	ng/kg	5.71 U B	5.73 U B	1.37 J Z	5.29 U B	0.441 J Z	2.94 J Z	2.60 J Z
1,2,3,7,8-PeCDF	ng/kg	5.71 U B	5.73 U B	0.987 J Z	5.29 U B	0.313 J Z	1.80 J Z	1.79 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.71 U B	5.73 U	0.467 J Z	5.29 U B	5.67 U B, Z	1.69 J Z	1.30 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.71 U B	5.73 U B	1.19 J Z	5.29 U B	0.434 J Z	9.62	3.45 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.71 U	5.73 U B	0.570 J Z	5.29 U B	5.67 U B, Z	2.31 J Z	1.40 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.71 U B	5.73 U B	3.37 J Z	5.29 U B	1.08 J Z	24.1	8.93
1,2,3,4,7,8-HxCDF	ng/kg	5.71 U B	5.73 U	1.09 J Z	5.29 U B	0.630 J Z	2.48 J Z	2.76 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.71 U B	5.73 U B	0.445 J Z	5.29 U B	0.357 J Z	0.418 J Z	0.477 J Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	3.3 J Z	1.9 U	1.9 U	5.2	42
Aroclor 1254	ug/kg	1.9 U	2.0 U	4.5	1.9 U	1.9 U	3.8 U	20 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 1221	ug/kg	1.9 UJ C	2.0 UJ C	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 5460	ug/kg	3.8 UJ C	3.8 UJ C	11	3.6 U	3.8 U	8.7	160
Aroclor 1232	ug/kg	1.9 UJ C	2.0 UJ C	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	7.4 U	3.6 U	3.8 U	7.4 U	40 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 1016	ug/kg	1.9 UJ C	2.0 UJ C	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	3.8 U	1.9 U	1.9 U	3.8 U	20 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	7.4 U	3.6 U	3.8 U	7.4 U	40 U

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R - Result is rejected

Sample Name		SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5	SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0
Sample Date		06/09/2011	04/21/2011	04/21/2011	04/21/2011	04/20/2011	05/11/2011	05/11/2011
SDG		DX101	DX076	DX076	DX076	DX074	DX080	DX080
Start Depth		4	0	0	0	0	4	9
End Depth		5	0.5	0.5	0.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.15 U	0.0533 J Z	0.102 J Z	0.0702 J FD, Z	0.0445 J Z	1.07 U B, Z	1.15 U
1,2,3,7,8,9-HxCDD	ng/kg	5.77 U B	0.661 J Z	1.13 J Z	0.358 J Z	2.05 J Z	0.763 J Z	0.519 J Z
OCDD	ng/kg	17.4	359	302	186 J Q, E	2070 J FD	503	56.1
1,2,3,4,6,7,8-HpCDD	ng/kg	2.49 J Z	31.5	37.1	14.6	166 J FD, Q	33	6.1
OCDF	ng/kg	11.5 U B	8.95 J Z	7.40 J Z	4.33 J Z	40.1	9.27 J Z	1.82 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0311 J Z	0.289 J Z	0.493 J Z	0.204 J FD, Z	1.02 J Z	0.254 J Z	5.76 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.77 U	5.24 U B, Z	0.489 J Z	5.34 UJ B, FD, Z	0.395 J FD, Z	0.216 J Z	5.76 U B, Z
2,3,7,8-TCDF	ng/kg	0.0658 J Z	0.366 J Z	0.513 J Z	0.114 J FD, Z	0.453 J Z	0.0584 J Z	1.15 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.77 U B	0.400 J Z	5.81 U B, Z	5.34 U B, Z	1.51 J Z	5.33 U B, Z	5.76 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.77 U B	0.823 J Z	1.08 J Z	0.485 J Z	1.59 J Z	5.33 U	5.76 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.77 U B	0.133 J Z	0.418 J Z	0.262 J FD, Z	0.883 J FD, Z	0.315 J Z	5.76 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.77 U B	5.24 U B, Z	0.409 J Z	5.34 UJ B, FD, Z	0.970 J Z	0.489 J Z	5.76 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.77 U B	1.04 J Z	1.94 J Z	0.568 J Z	4.88 J Z	1.24 J Z	0.452 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.77 U B	5.24 U B, Z	0.637 J Z	5.34 U B, Z	0.948 J Z	0.337 J Z	5.76 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.77 U B	3.22 J Z	3.71 J Z	2.14 J Z	15	4.68 J Z	0.933 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.77 U B	1.32 J Z	0.983 J Z	0.476 J Z	2.27 J Z	0.607 J Z	0.642 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.77 U B	0.207 J Z	0.264 J Z	0.185 J Z	0.689 J Z	0.398 J Z	0.460 J Z
Aroclor 1260	ug/kg	1.1 J Z	4.8	2.8 J *#	0.96 J Z	17	1.8 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	1.8 U	5.7 J *#	0.82 J Z	56	1.8 U	1.8 J Z
Aroclor 1268	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	4.4	1.9 J Z	4	4.0 J FD	17 U	3.6 U	3.0 J Z
Aroclor 1232	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.5 U	3.9 U	3.5 U	17 U	3.6 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	2.0 U	1.8 U	9.0 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.5 U	3.9 U	3.5 U	17 U	3.6 U	3.8 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5	SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	06/07/2011	04/21/2011	04/21/2011	04/20/2011	05/10/2011	04/20/2011
SDG		DX072	DX099	DX076	DX076	DX074	DX079	DX074
Start Depth		0	2	0	0	0	4	0
End Depth		0.5	3	0.5	0.5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U B, Z	1.08 U	0.0583 J Z	0.0441 J Z	0.135 J Z	1.11 U	0.0339 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.353 J Z	5.38 U B	0.955 J Z	0.462 J Z	1.42 J Z	0.288 J Z	1.02 J Z
OCDD	ng/kg	19.6	7.69 J Z	177	90.6	376	2.75 J Z	210
1,2,3,4,6,7,8-HpCDD	ng/kg	2.88 J Z	5.38 U B	16.1	10.7	34.1	5.56 U B, Z	19.4
OCDF	ng/kg	10.4 U B, Z	10.8 U B	5.93 J Z	4.92 J Z	6.16 J Z	11.1 U B, Z	6.06 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.19 U B, Z	0.0779 J Z	0.340 J Z	0.298 J Z	0.526 J Z	5.56 U B, Z	0.310 J Z
1,2,3,7,8-PeCDD	ng/kg	5.19 U B, Z	0.155 J Z	0.359 J Z	0.171 J Z	0.549 J Z	5.56 U B, Z	0.221 J Z
2,3,7,8-TCDF	ng/kg	0.363 J Z	0.0932 J Z	0.895 J Z	0.766 J Z	0.645 J Z	0.0324 J Z	0.346 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.19 U B, Z	5.38 U B	0.384 J Z	0.453 J Z	0.402 J Z	5.56 U B, Z	0.246 J Z
2,3,4,7,8-PeCDF	ng/kg	5.19 U B, Z	0.245 J Z	1.26 J Z	1.45 J Z	1.03 J Z	5.56 U B, Z	0.672 J Z
1,2,3,7,8-PeCDF	ng/kg	0.323 J Z	0.248 J Z	0.503 J Z	0.288 J Z	1.28 J Z	5.56 U B, Z	0.434 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.19 U B, Z	5.38 U B	0.543 J Z	0.506 J Z	0.581 J Z	5.56 U B, Z	0.226 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.236 J Z	5.38 U B	0.970 J Z	0.573 J Z	1.39 J Z	5.56 U B, Z	1.04 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.19 U B, Z	5.38 U B	0.522 J Z	1.04 J Z	0.495 J Z	5.56 U B, Z	0.248 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.19 U B, Z	5.38 U B	2.93 J Z	3.83 J Z	2.59 J Z	5.56 U B, Z	2.60 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.19 U B, Z	5.38 U B	0.972 J Z	1.30 J Z	0.767 J Z	5.56 U B, Z	0.539 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.19 U B, Z	5.38 U B	0.460 J Z	5.54 U B, Z	0.563 J Z	5.56 U B, Z	0.433 J Z
Aroclor 1260	ug/kg	1.0 J Z	1.8 U	2.0 J Z	3.8 J *#	3.7	1.9 U	1.0 J Z
Aroclor 1254	ug/kg	0.70 J Z	1.8 U	2.4	2.7	5.7	1.9 U	2
Aroclor 1268	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	2.3 J Z	3.6 U	4.7	5.9	15	3.7 U	4.0 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.4 U	3.6 U	4.0 U	3.6 U	3.5 U	3.7 U	4.0 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.4 U	3.6 U	4.0 U	3.6 U	3.5 U	3.7 U	4.0 U

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R - Result is rejected

Sample Name		SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5	SL-129-SA8N-SB-4.0-5.0	SL-130-SA8N-SS-0.0-0.5	SL-131-SA8N-SS-0.0-0.5	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5
Sample Date		05/10/2011	04/20/2011	05/10/2011	04/14/2011	04/12/2011	04/18/2011	04/14/2011
SDG		DX079	DX074	DX079	DX071	DX069	DX070	DX071
Start Depth		2.5	0	4	0	0	0	0
End Depth		3.5	0.5	5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	1.07 U	1.09 U B, Z	0.0931 J Z	1.14 U B, Z	1.08 U	1.17 U
1,2,3,7,8,9-HxCDD	ng/kg	5.43 U B, Z	0.465 J Z	5.47 U B, Z	1.55 J Z	1.85 J Z	0.700 J Z	1.64 J Z
OCDD	ng/kg	10.9 U B, Z	65.2	2.64 J Z	1360	600	244	493 J Q, E
1,2,3,4,6,7,8-HpCDD	ng/kg	5.43 U B, Z	5.61	5.47 U B, Z	127	70.9	20.2	45.4
OCDF	ng/kg	10.9 U B, Z	1.52 J Z	10.9 U B, Z	35.9	13.2	10.6 J Z	21.1
1,2,3,4,7,8-HxCDD	ng/kg	5.43 U B, Z	0.0936 J Z	5.47 U B, Z	0.811 J Z	0.885 J Z	0.249 J Z	0.857 J Z
1,2,3,7,8-PeCDD	ng/kg	5.43 U B, Z	5.37 U B, Z	5.47 U B, Z	0.388 J Z	5.70 U	5.39 U B, Z	0.699 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	1.96 Z	0.0513 J Z	1.05 J Z	0.442 J Z	1.70 Z	28.5 Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.43 U B, Z	5.37 U B, Z	5.47 U B, Z	1.92 J Z	0.503 J Z	5.39 U B, Z	1.04 J Z
2,3,4,7,8-PeCDF	ng/kg	5.43 U B, Z	2.09 J Z	5.47 U B, Z	1.02 J Z	1.27 J Z	0.505 J Z	10.6
1,2,3,7,8-PeCDF	ng/kg	5.43 U B, Z	1.17 J Z	0.168 J Z	1.95 J Z	1.66 J Z	2.65 J Z	3.96 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.43 U B, Z	0.847 J Z	5.47 U B, Z	0.782 J Z	0.619 J Z	0.300 J Z	1.36 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.43 U B, Z	0.401 J Z	5.47 U B, Z	4.32 J Z	2.92 J Z	0.916 J Z	2.13 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.43 U B, Z	0.485 J Z	5.47 U B, Z	1.08 J Z	0.697 J Z	5.39 U B, Z	1.40 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.43 U B, Z	1.54 J Z	5.47 U B, Z	16.5	6.89	3.43 J Z	10.9
1,2,3,4,7,8-HxCDF	ng/kg	5.43 U B, Z	2.72 J Z	5.47 U B, Z	2.41 J Z	1.61 J Z	0.634 J Z	4.98 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.43 U B, Z	0.376 J Z	5.47 U B, Z	1.21 J Z	0.609 J Z	5.39 U B, Z	1.17 J Z
Aroclor 1260	ug/kg	1.9 U	2.3	1.9 U	3.1	3.9 U	4.3	200 U
Aroclor 1254	ug/kg	1.9 U	4.1	1.9 U	8.2	31 J S	16	1500
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	9.4 J S	1.9 U	200 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	200 U
Aroclor 5460	ug/kg	3.6 U	14	3.7 U	3.8 U	14 J S, C	5.2	5100
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	200 U
Aroclor 5442	ug/kg	3.6 U	3.6 U	3.7 U	3.8 U	7.6 U	3.6 U	390 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	1700
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	200 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	200 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	3.9 U	1.9 U	200 U
Aroclor 5432	ug/kg	3.6 U	3.6 U	3.7 U	3.8 U	7.6 UJ C	3.6 UJ C	390 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5	SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SS-0.0-0.5	SL-136-SA8N-SB-4.0-5.0
Sample Date		06/06/2011	06/06/2011	04/14/2011	04/19/2011	05/09/2011	04/20/2011	05/11/2011
SDG		DX099	DX099	DX071	DX072	DX080	DX074	DX080
Start Depth		4	7	0	0	2	0	4
End Depth		5	8	0.5	0.5	3	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0477 J Z	1.14 U	1.12 U	1.08 U	1.07 U	0.0161 J Z	1.02 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.74 U B	5.70 U B	1.89 J Z	0.543 J Z	0.844 J Z	0.341 J Z	5.11 U B, Z
OCDD	ng/kg	13.7	14.5	279	92	112	84.5	8.02 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.74 U B	5.70 U B	23	10.2	9.7	6.89	5.11 U B, Z
OCDF	ng/kg	11.5 U B	11.4 U B	10.1 J Z	2.80 J Z	2.44 J Z	2.14 J Z	10.2 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.164 J Z	0.0480 J Z	0.425 J Z	5.42 U B, Z	0.365 J Z	0.106 J Z	5.11 U B, Z
1,2,3,7,8-PeCDD	ng/kg	0.280 J Z	0.0196 J Z	0.343 J Z	5.42 U B, Z	0.500 J Z	5.97 U B, Z	5.11 U
2,3,7,8-TCDF	ng/kg	0.0914 J Z	0.244 J Z	1/20/2012	1.08 U B, Z	0.154 J Z	1.19 U B, Z	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.74 U B	5.70 U B	0.632 J Z	5.42 U B, Z	5.37 U B, Z	5.97 U B, Z	5.11 U B, Z
2,3,4,7,8-PeCDF	ng/kg	0.279 J Z	5.70 U B	0.800 J Z	5.42 U B, Z	0.616 J Z	5.97 U B, Z	5.11 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.338 J Z	0.228 J Z	1.00 J Z	0.753 J Z	0.637 J Z	5.97 U B, Z	5.11 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	0.219 J Z	5.70 U B	0.608 J Z	5.42 U B, Z	0.450 J Z	5.97 U B, Z	5.11 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.74 U B	5.70 U B	1.70 J Z	0.561 J Z	0.813 J Z	0.411 J Z	5.11 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	0.137 J Z	5.70 U B	0.564 J Z	5.42 U B, Z	0.335 J Z	5.97 U B, Z	5.11 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.74 U B	5.70 U B	5.58 J Z	5.42 U B, Z	1.21 J Z	1.06 J Z	5.11 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	0.227 J Z	5.70 U B	1.88 J Z	5.42 U B, Z	0.484 J Z	0.472 J Z	5.11 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.74 U B	5.70 U B	1.04 J Z	5.42 U B, Z	0.520 J Z	0.191 J Z	5.11 U B, Z
Aroclor 1260	ug/kg	2.0 U	2.0 U	19 U	1.2 J Z	1.9 U	3.8	1.8 U
Aroclor 1254	ug/kg	2	7.8	19 U	2.3	3.9	2.0 U	1.8 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 5460	ug/kg	3.9 UJ E	1.4 J L, Z	37 U	1.6 J Z	1.5 J Z	3.3 J Z	3.5 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 5442	ug/kg	3.9 UJ E	3.8 U	37 U	3.6 U	3.6 U	3.9 U	3.5 U
Aroclor 1248	ug/kg	1.9 J Z	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	19 U	1.8 U	1.9 U	2.0 U	1.8 U
Aroclor 5432	ug/kg	3.9 UJ E	3.8 U	37 U	3.6 U	3.6 U	3.9 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-136-SA8N-SB-9.0-10.0	SL-137-SA8N-SS-0.0-0.5	SL-137-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-9.0-10.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5
Sample Date		05/11/2011	04/20/2011	05/10/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011
SDG		DX080	DX074	DX079	DX079	DX073	DX073	DX073
Start Depth		9	0	4	9	0	0	0
End Depth		10	0.5	5	10	0.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.01 U	0.0807 J Z	1.10 U B, Z	1.12 U B, Z	1.04 U B, Z	1.08 UJ B, FD, Z	1.14 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.07 U B, Z	1.19 J Z	0.228 J Z	0.887 J Z	0.544 J Z	0.556 J Z	4.17 J Z
OCDD	ng/kg	10.1 U B, Z	769	12.9	92.2	29.3	28.5	736
1,2,3,4,6,7,8-HpCDD	ng/kg	5.07 U B, Z	80.2	1.34 J Z	13.3	3.17 J Z	3.55 J Z	171
OCDF	ng/kg	10.1 U B, Z	27.5	11.0 U B, Z	3.59 J Z	10.4 U B, Z	10.8 U B, Z	11.2 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.07 U	0.489 J Z	0.203 J Z	0.388 J Z	5.22 U B, Z	5.42 U B, Z	4.49 J Z
1,2,3,7,8-PeCDD	ng/kg	5.07 U B, Z	0.398 J Z	5.49 U B, Z	0.422 J Z	5.22 U B, Z	5.42 U B, Z	1.33 J Z
2,3,7,8-TCDF	ng/kg	1.01 U	0.925 J Z	1.10 U	0.743 J Z	1.04 U B, Z	0.231 J Z	0.393 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.07 U B, Z	0.702 J Z	5.49 U B, Z	5.58 U B, Z	5.22 U B, Z	5.42 UJ B, FD, Z	0.753 J Z
2,3,4,7,8-PeCDF	ng/kg	5.07 U B, Z	2.50 J Z	5.49 U B, Z	1.34 J Z	5.22 U B, Z	0.448 J Z	0.819 J Z
1,2,3,7,8-PeCDF	ng/kg	5.07 U B, Z	0.487 J Z	0.352 J Z	0.977 J Z	5.22 U B, Z	0.352 J Z	0.744 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.07 U B, Z	0.808 J Z	5.49 U B, Z	0.956 J Z	5.22 U B, Z	5.42 U B, Z	0.683 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.07 U B, Z	2.52 J Z	5.49 U B, Z	1.07 J Z	0.403 J Z	0.490 J Z	5.04 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.07 U B, Z	1.02 J Z	5.49 U B, Z	1.25 J Z	5.22 U B, Z	5.42 U B, Z	0.582 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.07 U B, Z	8.63	5.49 U B, Z	3.72 J Z	5.22 U B, Z	0.804 J Z	6.37
1,2,3,4,7,8-HxCDF	ng/kg	5.07 U B, Z	1.26 J Z	5.49 U B, Z	1.27 J Z	5.22 U B, Z	5.42 U B, Z	1.06 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.07 U B, Z	0.284 J Z	5.49 U B, Z	0.503 J Z	5.22 U B, Z	5.42 U B, Z	0.532 J Z
Aroclor 1260	ug/kg	1.8 U	8.1 J Z	1.9 U	0.50 J Z	0.68 J Z	1.2 J S, Z	1.7 J Z
Aroclor 1254	ug/kg	1.8 U	16	2.8	1.9 U	0.75 J Z	0.86 J S, Z	1.5 J Z
Aroclor 1268	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.4 U	9.4 J Z	4	3.8 U	1.7 J Z	2.2 J S, Z	2.5 J Z
Aroclor 1232	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	17 U	3.7 U	3.8 U	3.5 U	3.6 U	3.8 U
Aroclor 1248	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	8.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	17 U	3.7 U	3.8 U	3.5 U	3.6 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins - Validated Data
HSA-8N

Sample Name		SL-140-SA8N-SB-3.0-4.0	SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		06/07/2011	04/15/2011	05/09/2011
SDG		DX099	DX072	DX080
Start Depth		3	0	4
End Depth		4	0.5	5
Chemical Name	Unit			
2,3,7,8-TCDD	ng/kg	0.0696 J Z	1.14 U	1.19 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.66 U B	5.68 U B, Z	0.336 J Z
OCDD	ng/kg	22.1	27.5	6.16 J FD, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.03 J Z	3.01 J Z	5.95 UJ B, FD, Z
OCDF	ng/kg	11.3 U B	6.09 J Z	11.9 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.206 J Z	5.68 U B, Z	0.168 J FD, Z
1,2,3,7,8-PeCDD	ng/kg	0.167 J Z	5.68 U B, Z	0.332 J Z
2,3,7,8-TCDF	ng/kg	0.0629 J Z	0.144 J Z	0.0838 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.66 U B	5.68 U B, Z	5.95 UJ B, FD, Z
2,3,4,7,8-PeCDF	ng/kg	5.66 U B	5.68 U B, Z	5.95 UJ B, FD, Z
1,2,3,7,8-PeCDF	ng/kg	0.184 J Z	0.758 J Z	5.95 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.66 U B	5.68 U B, Z	0.192 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.318 J Z	5.68 U B, Z	5.95 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.66 U B	5.68 U B, Z	5.95 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.66 U B	1.51 J Z	5.95 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.66 U B	0.485 J Z	5.95 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.66 U B	5.68 U B, Z	5.95 U B, Z
Aroclor 1260	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	2.3	2.0 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	4.0 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	4.0 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011
SDG		DE124	DE165	DE165	DE124	DE166	DE166
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
2,4-Dinitrotoluene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Nitrobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1,4-Dichlorobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1,2,4-Trichlorobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1,3-Dichlorobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Hexachlorobutadiene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1,2-Dichlorobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
4-Nitroaniline	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
4-Nitrophenol	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
2,4-Dimethylphenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
4-Methylphenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
4-Chloroaniline	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
3,5-Dimethylphenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Phenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	25 J Z	21 J Z	--	23 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	22 UJ FD	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	23 U	21 U	20 U	22 U	22 U	21 U
Hexachlorobenzene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
2,4-Dichlorophenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1,2-Diphenylhydrazine	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.2 J Z	2.0 U	1.9 U	1.6 J Z	2.0 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	23 U	21 U	20 U	22 U	22 U	21 U
Dibenzofuran	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.6 J Z	2.0 U	1.9 U	1.8 J Z	2.0 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J Z	2.0 U	1.9 U	2.1	2.0 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Acenaphthylene	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011
SDG		DE124	DE165	DE165	DE124	DE166	DE166
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.4 J Z	2.0 U	1.9 U	1.5 J Z	2.0 U	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
2,4-Dinitrophenol	ug/kg	1300 U	1200 U	1100 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Aniline	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
Benzoic Acid	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
Hexachloroethane	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
4-Chlorophenyl Phenylether	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Hexachlorocyclopentadiene	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
Isophorone	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	23 U	21 U	20 U	22 U	22 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	23 U	21 U	20 U	22 U	22 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.87 J Z	2.0 U	1.9 U	1.4 J Z	2.0 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	23 U	21 U	20 U	22 U	22 U	21 U
N-Nitrosodiphenylamine	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Fluorene	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Carbazole	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Pentachlorophenol	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
2,4,6-Trichlorophenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
2-Nitroaniline	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
2-Nitrophenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
1-Methylnaphthalene	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
Naphthalene	ug/kg	0.87 J Z	2.0 U	1.9 U	1.1 J Z	2.0 U	2.0 U
2-Methylnaphthalene	ug/kg	2.1 U	2.0 U	1.9 U	2.1 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
3,3`-Dichlorobenzidine	ug/kg	420 U	390 U	370 U	410 U	400 U	390 U
Benzidine	ug/kg	4200 U	3900 U	3700 U	4100 U	4000 U	3900 U
2-Methylphenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
2-Chlorophenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
2,4,5-Trichlorophenol	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8N-SS-0.0-0.5	SL-001-SA8N-SB-4.0-5.0	SL-001-SA8N-SB-9.0-10.0	SL-002-SA8N-SS-0.0-0.5	SL-002-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/26/2011	05/26/2011	04/11/2011	05/26/2011	05/26/2011
SDG		DE124	DE165	DE165	DE124	DE166	DE166
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U
Benzyl Alcohol	ug/kg	630 U	590 U	560 U	610 U	600 U	590 U
2,6-Dinitrotoluene	ug/kg	210 U	200 U	190 U	200 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-003-SA8N-SS-0.0-0.5	SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011
SDG		DE124	DE167	DE167	DE124	DE134	DE134
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Phenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J Z	25 J Z	23 J Z	25 J Z	23 J Z	24 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	21 U	21 UJ C	20 UJ C
Hexachlorobenzene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 J Z	2.0 U	2.0 U	1.9	2.0 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	21 U	21 U	20 U
Dibenzofuran	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 J Z	2.0 U	2.0 U	2.5	2.0 UJ C	1.9 UJ C
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.1	2.0 U	2.0 U	2.2	2.0 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Acenaphthylene	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-003-SA8N-SS-0.0-0.5	SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011
SDG		DE124	DE167	DE167	DE124	DE134	DE134
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 J Z	2.0 U	2.0 U	1.9	2.0 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.0 J Z	2.0 U	2.0 U	1.2 J Z	2.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 UJ L	1200 UJ L	1100 U	1200 UJ L	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.84 J Z	2.0 U	2.0 U	1.0 J Z	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Aniline	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
Benzoic Acid	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
Hexachloroethane	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
Isophorone	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	21 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	72	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.3 J Z	2.0 U	2.0 U	1.5 J Z	2.0 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	21 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	210 U	200 U	200 U	26 J Z	190 U	190 U
Fluorene	ug/kg	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U
Carbazole	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
2,4,6-Trichlorophenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	2.0 U	2.0 U	2.0 U	0.96 J Z	2.0 U	1.9 U
Naphthalene	ug/kg	2.0 U	2.0 U	2.0 U	1.2 J Z	2.0 U	1.9 U
2-Methylnaphthalene	ug/kg	2.0 U	2.0 U	2.0 U	1.4 J Z	2.0 U	1.9 U
2-Chloronaphthalene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	410 U	390 U	410 U	380 U	390 U	370 U
Benzidine	ug/kg	4100 U	3900 U	4100 U	3800 U	3900 U	3700 U
2-Methylphenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-003-SA8N-SS-0.0-0.5	SL-003-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-9.0-10.0	SL-004-SA8N-SS-0.0-0.5	SL-004-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	05/27/2011	05/27/2011	04/11/2011	04/21/2011	04/21/2011
SDG		DE124	DE167	DE167	DE124	DE134	DE134
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	620 U	590 U	610 U	570 U	580 U	560 U
2,6-Dinitrotoluene	ug/kg	210 U	200 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0	SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011
SDG		DE124	DE134	DE134	DE124	DE134	DE134	DE124
Start Depth		0	4	8	0	4	8	0
End Depth		0.5	5	9	0.5	5	9	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Nitrobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Hexachlorobutadiene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
4-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
4-Nitrophenol	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
4-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
4-Chloroaniline	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Phenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	79 J Z	21 J Z	26 J Z	20 J Z	20 J Z	24 J Z	30 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	12 J Z	21 UJ C	20 UJ C	9.5 J Z	22 UJ C	21 UJ C	10 J Z
Hexachlorobenzene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.4 J Z	1.9 U	1.9 U	2.9	2.0 U	2.0 U	2.9
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	21 U	20 U	21 U	22 U	21 U	22 U
Dibenzofuran	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.2 J Z	2.0 U	2.0 U	1.0 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	0.94 J Z	2.0 U	2.0 U	0.87 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.0 J Z	1.9 UJ C	1.9 UJ C	2.8	2.0 UJ C	2.0 UJ C	2.4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7	1.9 U	1.9 U	3.6	2.0 U	2.0 U	3.6
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.1 J Z	2.0 U	2.0 U	0.84 J Z
Acenaphthylene	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0	SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011
SDG		DE124	DE134	DE134	DE124	DE134	DE134	DE124
Start Depth		0	4	8	0	4	8	0
End Depth		0.5	5	9	0.5	5	9	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.0 J Z	1.9 U	1.9 U	2.5	2.0 U	2.0 U	2.7
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.5 J Z	2.0 U	2.0 U	1.1 J Z
2,4-Dinitrophenol	ug/kg	1000 U	1100 UJ L	1100 UJ L	1100 U	1200 UJ L	1200 UJ L	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.5 J Z	2.0 U	2.0 U	1.2 J Z
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Aniline	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
Benzoic Acid	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
Hexachloroethane	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
Isophorone	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	21 U	20 U	21 U	22 U	21 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	21 U	20 U	21 U	22 U	21 U	22 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.92 J Z	1.9 U	1.9 U	2.2	2.0 U	2.0 U	2.3
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	21 U	20 U	21 U	22 U	21 U	22 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Fluorene	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Carbazole	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Pentachlorophenol	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
2-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
2-Nitrophenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Naphthalene	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.6 J Z
2-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.3 J Z
2-Chloronaphthalene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	350 U	380 U	370 U	380 U	400 U	390 U	400 U
Benzidine	ug/kg	3500 U	3800 U	3700 U	3800 U	4000 U	3900 U	4000 U
2-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
2-Chlorophenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA8N-SS-0.0-0.5	SL-005-SA8N-SB-4.0-5.0	SL-005-SA8N-SB-8.0-9.0	SL-006-SA8N-SS-0.0-0.5	SL-006-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-8.0-9.0	SL-007-SA8N-SS-0.0-0.5
Sample Date		04/11/2011	04/21/2011	04/21/2011	04/11/2011	04/21/2011	04/21/2011	04/11/2011
SDG		DE124	DE134	DE134	DE124	DE134	DE134	DE124
Start Depth		0	4	8	0	4	8	0
End Depth		0.5	5	9	0.5	5	9	0.5
3-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U
Benzyl Alcohol	ug/kg	520 U	570 U	550 U	570 U	600 U	580 U	600 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	200 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0	SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5
Sample Date		04/22/2011	04/22/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DE135	DE135	DE124	DE166	DE166	DE124
Start Depth		4	9	0	4	9	0
End Depth		5	10	0.5	5	10	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
4-Nitrophenol	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Phenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	31 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	21 U	--	9.8 J Z	11 J Z	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.96 J Z	2.0 U	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.2	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.2	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.1 J Z	2.0 U	1.1 J Z	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.4 J Z	2.0 U	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.1 J Z	2.0 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0	SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5
Sample Date		04/22/2011	04/22/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DE135	DE135	DE124	DE166	DE166	DE124
Start Depth		4	9	0	4	9	0
End Depth		5	10	0.5	5	10	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.5 J Z	0.47 J Z	1.9 U	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.2	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Aniline	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
Benzoic Acid	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
Isophorone	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.86 J Z	2.0 U	1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Fluorene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
Carbazole	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Pentachlorophenol	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.1 J Z	2.0 U	1.9 U	2.0 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	0.90 J Z	2.0 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	360 U	400 U	380 U	390 U
Benzidine	ug/kg	3900 U	3800 U	3600 U	4000 U	3800 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-007-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-9.0-10.0	SL-008-SA8N-SS-0.0-0.5	SL-008-SA8N-SB-4.0-5.0	SL-008-SA8N-SB-9.0-10.0	SL-009-SA8N-SS-0.0-0.5
Sample Date		04/22/2011	04/22/2011	04/11/2011	05/26/2011	05/26/2011	04/11/2011
SDG		DE135	DE135	DE124	DE166	DE166	DE124
Start Depth		4	9	0	4	9	0
End Depth		5	10	0.5	5	10	0.5
3-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U
Benzyl Alcohol	ug/kg	580 U	570 U	540 U	590 U	580 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	200 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0	SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE124	DE135	DE135	DE124	DE135	DE135
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	685	88.8	58.6	380 J Z	62.9	98.2
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Phenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	42 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	9.1 J Z	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	190 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	21 U
Hexachlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	25 J Z	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	--	2.0 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	190 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	21 U
Dibenzofuran	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	7.9 J Z	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	6.7 J Z	2.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	25	2.0 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	24	2.0 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	9.8	2.0 U	1.9 U
Acenaphthylene	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0	SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE124	DE135	DE135	DE124	DE135	DE135
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	28 J Z	--	--
Chrysene (8270C SIM)	ug/kg	0.87 J Z	1.9 U	2.0 U	--	2.0 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	14	2.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	15	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Aniline	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
Benzoic Acid	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
Hexachloroethane	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
Isophorone	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	190 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	7.9 J Z	2.0 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	190 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Fluorene	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
Carbazole	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
Naphthalene	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
2-Methylnaphthalene	ug/kg	2.0 U	1.9 U	2.0 U	9.7 U	2.0 U	1.9 U
2-Chloronaphthalene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	390 U	390 U	390 U	390 U	390 U
Benzidine	ug/kg	3900 U	3900 U	3900 U	3900 U	3900 U	3900 U
2-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0	SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0
Sample Date		04/11/2011	04/22/2011	04/22/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE124	DE135	DE135	DE124	DE135	DE135
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	590 U	580 U	590 U	580 U	580 U	580 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0	SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5
Sample Date		04/12/2011	05/02/2011	04/11/2011	04/29/2011	04/11/2011	04/29/2011	04/12/2011
SDG		DE125	DE141	DE124	DE140	DE124	DE140	DE125
Start Depth		0	4	0	2	0	4	0
End Depth		0.5	5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	378 U	201	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	200 U	190 U	190 U	190 U	190 U	190 UJ L
4-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 UJ Q	200 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	28 J Z	--	31 J Z	380 U	51 J Z	--	25 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U B	--	--	--	21 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 UJ F, C	8.9 J Z	--	8.7 J Z	21 U	8.8 J Z	21 UJ F, C
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.3	1.9 U	9.6 UJ FD	1.9 U	3.7	1.9 U	0.90 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.5 J Z	1.9 U	9.6 U	1.9 U	1.2 J Z	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.2 J Z	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 J C	1.9 U	9.6 UJ FD	0.89 J Z	3.3	1.9 U	1.0 J Z, C
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.5	1.9 U	9.6 UJ FD	1.9 U	4.3	1.9 U	1.1 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	0.84 J Z	1.9 U	9.6 U	1.9 U	1.2 J Z	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0	SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5
Sample Date		04/12/2011	05/02/2011	04/11/2011	04/29/2011	04/11/2011	04/29/2011	04/12/2011
SDG		DE125	DE141	DE124	DE140	DE124	DE140	DE125
Start Depth		0	4	0	2	0	4	0
End Depth		0.5	5	0.5	3	0.5	5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	3.9	1.9 U	9.6 UJ FD	0.64 J Z	3.1	1.9 U	2.4
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	9.6 UJ FD	1.9 U	1.8 J Z	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1100 U	1200 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	9.6 U	1.9 U	1.5 J Z	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
Benzoic Acid	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 UJ Q	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
Isophorone	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	9.6 U	1.9 U	1.8 J Z	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Fluorene	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	1.1 J Z	1.9 U	1.9 U
Naphthalene	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	2.3	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	9.6 U	1.9 U	2.3	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	390 U	380 U	380 U	380 U	380 U	390 U
Benzidine	ug/kg	3800 UJ Q	3900 U	3800 UJ Q	3800 U	3800 U	3800 U	3900 U
2-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SS-0.0-0.5	SL-013-SA8N-SB-2.0-3.0	SL-014-SA8N-SS-0.0-0.5	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SS-0.0-0.5
Sample Date		04/12/2011	05/02/2011	04/11/2011	04/29/2011	04/11/2011	04/29/2011	04/12/2011
SDG		DE125	DE141	DE124	DE140	DE124	DE140	DE125
Start Depth		0	4	0	2	0	4	0
End Depth		0.5	5	0.5	3	0.5	5	0.5
3-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	590 U	580 U	570 U	580 U	570 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5	SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-018-SA8N-SS-0.0-0.5
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011
SDG		DE142	DE125	DE142	DE124	DE140	DE140	DE125
Start Depth		4	0	3	0	4	7	0
End Depth		5	0.5	4	0.5	5	8	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 UJ L	190 U	180 U	190 U	190 U	190 UJ L
4-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	880	--	--	--	390 U	21 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	8.2 J Z	--	16 J Z	20 U	20 U B	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	9.7 J Z	21 UJ F, C	9.2 J Z	20 U	11 J Z	9.2 J Z	21 UJ F, C
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	0.83 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	6.9	1.9 U	1.8 U	1.9 U	1.9 U	2
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	1.5 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	1.3 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	5.2 J C	1.9 U	1.8 U	1.9 U	1.9 U	1.7 J Z, C
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	6.3	1.9 U	1.8 U	1.9 U	1.9 U	2.2
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	2.8	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5	SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-018-SA8N-SS-0.0-0.5
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011
SDG		DE142	DE125	DE142	DE124	DE140	DE140	DE125
Start Depth		4	0	3	0	4	7	0
End Depth		5	0.5	4	0.5	5	8	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.0 U	15	1.9 U	0.53 J Z	1.9 U	1.9 U	4.5
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	3.2	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	3.9	1.9 U	1.8 U	1.9 U	1.9 U	0.80 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Aniline	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
Benzoic Acid	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
Isophorone	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	8.1 J Z	21 U	21 U	20 U	20 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	2.4	1.9 U	1.8 U	1.9 U	1.9 U	1.1 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	20 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Fluorene	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Naphthalene	ug/kg	2.0 U	1.1 J Z	1.9 U	1.5 J Z	1.9 U	1.9 U	0.96 J Z
2-Methylnaphthalene	ug/kg	2.0 U	1.9 U	1.9 U	1.3 J Z	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	380 U	370 U	370 U	390 U	390 U
Benzidine	ug/kg	3900 UJ Q	3800 U	3800 U	3700 U	3700 U	3900 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SS-0.0-0.5	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SS-0.0-0.5	SL-017-SA8N-SB-4.0-5.0	SL-017-SA8N-SB-7.0-8.0	SL-018-SA8N-SS-0.0-0.5
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/11/2011	04/29/2011	04/29/2011	04/12/2011
SDG		DE142	DE125	DE142	DE124	DE140	DE140	DE125
Start Depth		4	0	3	0	4	7	0
End Depth		5	0.5	4	0.5	5	8	0.5
3-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	570 U	570 U	550 U	560 U	580 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011
SDG		DE142	DE125	DE142	DE125	DE142	DE142
Start Depth		4	0	4	0	4	9
End Depth		5	0.5	5	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	398 U	23.0 J Z	368 J Z	28.5 J Z	41.4
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	200 UJ L	190 U	190 UJ L	190 U	200 U
4-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Nitrophenol	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Chloroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Phenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	39 J Z	--	25 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	10 J Z	--	21 U	9.1 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	9.0 J Z	21 UJ F, C	9.1 J Z	21 UJ F, C	21 U	9.8 J Z
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.2 J Z	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	3.1	1.9 U	56	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	21 U	21 U	22 U
Dibenzofuran	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	1.9 U	7.2	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	7.5	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	3.1 J C	1.9 U	60 J C	1.9 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.9	1.9 U	66	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.4 J Z	1.9 U	20	1.9 U	2.0 U
Acenaphthylene	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011
SDG		DE142	DE125	DE142	DE125	DE142	DE142
Start Depth		4	0	4	0	4	9
End Depth		5	0.5	5	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	11	1.9 U	45	1.9 U	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.4 J Z	1.9 U	30	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	2.3	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.4 J Z	1.9 U	40	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Aniline	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
Benzoic Acid	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
Isophorone	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	21 U	21 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	21 U F	21 U	22 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.6 J Z	1.9 U	4.8	1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	21 U	21 U	22 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Fluorene	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Carbazole	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Pentachlorophenol	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Naphthalene	ug/kg	1.9 U	1.1 J Z	1.9 U	1.2 J Z	1.9 U	2.0 U
2-Methylnaphthalene	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	380 U	400 U	380 U	380 U	390 U	400 U
Benzidine	ug/kg	3800 U	4000 U	3800 U	3800 U	3900 U	4000 U
2-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011
SDG		DE142	DE125	DE142	DE125	DE142	DE142
Start Depth		4	0	4	0	4	9
End Depth		5	0.5	5	0.5	5	10
3-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzyl Alcohol	ug/kg	570 U	600 U	580 U	580 U	580 U	610 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011
SDG		DE125	DE143	DE143	DE125	DE141	DE141
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	37.7 U	34.1 J Z	44	39.0 U	157	86
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	190 U	190 U	190 UJ L	190 U	200 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
4-Nitrophenol	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	25 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U F, Z	9.6 J Z	7.1 J Z	--	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 UJ F, C	9.2 J Z	9.0 J Z	21 UJ F, C	9.0 J Z	8.9 J Z
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.51 J Z	1.9 U	1.9 U	1.5 J Z	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	11	1.9 U	1.9 U	51	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.4	1.9 U	1.9 U	4.8	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.2	1.9 U	1.9 U	4.2	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	11 J C	1.9 U	1.9 U	34 J C	1.9 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	14	1.9 U	1.9 U	49	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5.7	1.9 U	1.9 U	14	1.9 U	2.0 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011
SDG		DE125	DE143	DE143	DE125	DE141	DE141
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	11	1.9 U	1.9 U	33	1.9 U	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	5.9	1.9 U	1.9 U	20	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 J Z	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.6	1.9 U	1.9 U	26	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Aniline	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
Benzoic Acid	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9	1.9 U	1.9 U	7.1	1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 J Z	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Fluorene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Pentachlorophenol	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Naphthalene	ug/kg	0.81 J Z	1.9 U	1.9 U	0.96 J Z	1.9 U	2.0 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	390 U	390 U	390 U	400 U
Benzidine	ug/kg	3800 U	3800 U	3900 U	3900 U	3900 U	4000 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8N-SS-0.0-0.5	SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011
SDG		DE125	DE143	DE143	DE125	DE141	DE141
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U
Benzyl Alcohol	ug/kg	560 U	580 U	580 U	580 U	580 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-023-SA8N-SS-0.0-0.5	SL-023-SA8N-SB-4.0-5.0	SL-023-SA8N-SB-9.0-10.0	SL-027-SA8N-SS-0.0-0.5	SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/02/2011	05/02/2011	04/13/2011	04/26/2011	04/26/2011
SDG		DE125	DE141	DE141	DE126	DE137	DE137
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	200 U	200 U	200 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Phenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U B	22 U B	41 J FD	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 UJ F, C	8.9 J Z	9.3 J Z	21 UJ FD	21 U	20 U
Hexachlorobenzene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.1 J Z	2.0 U	2.0 U	0.82 J FD, Z	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	11	2.0 U	2.0 U	7.6	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	22 U	21 U	21 U	20 U
Dibenzofuran	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9	2.0 U	2.0 U	5.1	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.4 J Z	2.0 U	2.0 U	3.7	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	12 J C	2.0 U	2.0 U	12	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	13	2.0 U	2.0 U	10	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.9	2.0 U	2.0 U	3.7	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	2.0 U	2.0 U	0.51 J Z	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-023-SA8N-SS-0.0-0.5	SL-023-SA8N-SB-4.0-5.0	SL-023-SA8N-SB-9.0-10.0	SL-027-SA8N-SS-0.0-0.5	SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/02/2011	05/02/2011	04/13/2011	04/26/2011	04/26/2011
SDG		DE125	DE141	DE141	DE126	DE137	DE137
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	11	2.0 U	2.0 U	10	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.1	2.0 U	2.0 U	5.1	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1200 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	0.98 J Z	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	3.4	2.0 U	2.0 U	4.4	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Aniline	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
Benzoic Acid	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
Hexachloroethane	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
Isophorone	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	22 U	21 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	22 U	21 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	5.6	2.0 U	2.0 U	4.9	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	22 U	21 UJ FD	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Fluorene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	1.3 J Z	1.9 U	1.9 U
Naphthalene	ug/kg	1.3 J Z	2.0 U	2.0 U	3.9	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	1.8 J Z	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	390 U	400 U	390 U	380 U	380 U
Benzidine	ug/kg	3900 U	3900 U	4000 U	3900 UJ Q	3800 U	3800 U
2-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-023-SA8N-SS-0.0-0.5	SL-023-SA8N-SB-4.0-5.0	SL-023-SA8N-SB-9.0-10.0	SL-027-SA8N-SS-0.0-0.5	SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	05/02/2011	05/02/2011	04/13/2011	04/26/2011	04/26/2011
SDG		DE125	DE141	DE141	DE126	DE137	DE137
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	590 U	600 U	590 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0	SL-032-SA8N-SB-9.0-10.0
Sample Date		04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011	04/27/2011
SDG		DE126	DE137	DE137	DE126	DE138	DE138
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Nitrobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Hexachlorobutadiene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
4-Nitroaniline	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
4-Nitrophenol	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
4-Methylphenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
4-Chloroaniline	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Phenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	30 J Z	--	--	32 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	22 U	21 U	20 U	19 U	21 U	21 U
Hexachlorobenzene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 J Z	1.9 U	1.8 U	1.3 J Z	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Pyrene (8270C)	ug/kg	28 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	14	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	22 U	21 U	20 U	19 U	21 U	21 U
Dibenzofuran	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	6.4	1.9 U	1.8 U	2.6	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	5.2	1.9 U	1.8 U	2.5	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	24 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	11	1.9 U	2.0 U
Fluoranthene (8270C)	ug/kg	34 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	17	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	7.5	1.9 U	1.8 U	4.8	1.9 U	2.0 U
Acenaphthylene	ug/kg	0.56 J Z	1.9 U	1.8 U	0.51 J Z	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0	SL-032-SA8N-SB-9.0-10.0
Sample Date		04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011	04/27/2011
SDG		DE126	DE137	DE137	DE126	DE138	DE138
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	28 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	9.1	1.9 U	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	10	1.9 U	1.8 U	5.1	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1100 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.5 J Z	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	22 J Z	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.9 U	1.8 U	4.1	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Aniline	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
Benzoic Acid	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
Hexachloroethane	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
Isophorone	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	22 U	21 U	20 U	19 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	22 U	21 U	20 U	19 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	7	1.9 U	1.8 U	6.5	1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	22 U	21 U	20 U	19 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Fluorene	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Carbazole	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Pentachlorophenol	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
2,4,6-Trichlorophenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
2-Nitroaniline	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
2-Nitrophenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.1 J Z	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Naphthalene	ug/kg	2.5	1.9 U	1.8 U	2	1.9 U	2.0 U
2-Methylnaphthalene	ug/kg	1.6 J Z	1.9 U	1.8 U	1.3 J Z	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	400 U	390 U	370 U	360 U	390 U	400 U
Benzidine	ug/kg	4000 U	3900 U	3700 U	3600 U	3900 U	4000 U
2-Methylphenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
2-Chlorophenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0	SL-032-SA8N-SB-9.0-10.0
Sample Date		04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011	04/27/2011
SDG		DE126	DE137	DE137	DE126	DE138	DE138
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U
Benzyl Alcohol	ug/kg	600 U	590 U	560 U	540 U	580 U	590 U
2,6-Dinitrotoluene	ug/kg	200 U	200 U	190 U	180 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-036-SA8N-SS-0.0-0.5	SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011
SDG		DE125	DE136	DE136	DE127	DE140	DE140
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Nitrobenzene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Hexachlorobutadiene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1,2-Dichlorobenzene	ug/kg	200 UJ L	190 U	210 U	180 U	200 U	200 U
4-Nitroaniline	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
4-Nitrophenol	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
2,4-Dimethylphenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
4-Methylphenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
4-Chloroaniline	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Phenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	160 J Z	--	--	18 J Z	--	400 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	22 U	--	21 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	180 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	22 UJ C	21 U	22 U	--	9.1 J Z	9.3 J Z
Hexachlorobenzene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.43 J Z	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
2,4-Dichlorophenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	4.2	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	--	21 U	22 U
Dibenzofuran	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	28 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.4 J Z	1.9 U	2.0 U	--	2.0 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.6 J C	1.9 U	2.0 U	8.9 U	2.0 UJ FD	1.6 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	5.6	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.0 J Z	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Acenaphthylene	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA8N-SS-0.0-0.5	SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011
SDG		DE125	DE136	DE136	DE127	DE140	DE140
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	3.3	1.9 U	2.0 U	1.9 J Z	2.0 UJ FD	1.4 J Z
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.3 J Z	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.2 J Z	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Aniline	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
Benzoic Acid	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
Hexachloroethane	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Hexachlorocyclopentadiene	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
Isophorone	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	--	21 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	--	21 U	22 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.9	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	22 U	21 U	22 U	--	21 U	22 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Fluorene	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Carbazole	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Pentachlorophenol	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
2-Nitroaniline	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
2-Nitrophenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
1-Methylnaphthalene	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
Naphthalene	ug/kg	1.8 J Z	0.81 J Z	2.0 U	4.7 J Z	2.0 UJ FD	2.0 U
2-Methylnaphthalene	ug/kg	2.0 U	1.9 U	2.0 U	8.9 U	2.0 U	2.0 U
2-Chloronaphthalene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
3,3`-Dichlorobenzidine	ug/kg	400 U	390 U	410 U	360 U	400 U	400 U
Benzidine	ug/kg	4000 U	3900 U	4100 U	3600 U	4000 U	4000 U
2-Methylphenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
2-Chlorophenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-036-SA8N-SS-0.0-0.5	SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0
Sample Date		04/12/2011	04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011
SDG		DE125	DE136	DE136	DE127	DE140	DE140
Start Depth		0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10
3-Nitroaniline	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U
Benzyl Alcohol	ug/kg	610 U	580 U	620 U	530 U	600 U	610 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	210 U	180 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0	SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5
Sample Date		04/28/2011	04/28/2011	04/13/2011	04/12/2011	04/12/2011	04/11/2011
SDG		DE139	DE139	DE126	DE125	DE125	DE124
Start Depth		4	9	0	0	0	0
End Depth		5	10	0.5	0.5	0.5	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	619	--	37.4 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Nitrobenzene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Hexachlorobutadiene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	190 U	180 U	190 UJ L	210 UJ L	190 U
4-Nitroaniline	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
4-Nitrophenol	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
4-Methylphenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
4-Chloroaniline	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Phenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	29 J Z	36 J Z	1000	29 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	21 U	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 UJ C	23 UJ C	20 U
Hexachlorobenzene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.59 J Z	0.65 J Z	2.1 U	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	7.4	15	1.5 J Z	3.2
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	23 U	20 U
Dibenzofuran	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.92 J Z	1.2 J Z	2.1 U	1.6 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.1 J Z	1.1 J Z	2.1 U	1.3 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	4.4	6.1 J C	1.6 J Z, C	4.5
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	11	21	1.6 J Z	4.6
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.6 J Z	2.2	2.1 U	1.7 J Z
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0	SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5
Sample Date		04/28/2011	04/28/2011	04/13/2011	04/12/2011	04/12/2011	04/11/2011
SDG		DE139	DE139	DE126	DE125	DE125	DE124
Start Depth		4	9	0	0	0	0
End Depth		5	10	0.5	0.5	0.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	4.2	9.7	2.0 J Z	3.6
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.4 J Z	1.6 J Z	2.1 U	2.4
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1100 U	1200 U	1300 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.2 J Z	1.3 J Z	2.1 U	2.1
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Aniline	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
Benzoic Acid	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
Hexachloroethane	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
Isophorone	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	23 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	23 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	6.2	6.6	1.2 J Z	1.8 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	23 U	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Fluorene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
Carbazole	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Pentachlorophenol	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
2-Nitroaniline	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
2-Nitrophenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.3 J Z	0.81 J Z	1.2 J Z	1.6 J Z
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.5 J Z
2-Chloronaphthalene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	390 U	360 U	390 U	420 U	370 U
Benzidine	ug/kg	3900 U	3900 U	3600 U	3900 U	4200 U	3700 U
2-Methylphenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
2-Chlorophenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0	SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-048-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5
Sample Date		04/28/2011	04/28/2011	04/13/2011	04/12/2011	04/12/2011	04/11/2011
SDG		DE139	DE139	DE126	DE125	DE125	DE124
Start Depth		4	9	0	0	0	0
End Depth		5	10	0.5	0.5	0.5	0.5
3-Nitroaniline	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U
Benzyl Alcohol	ug/kg	590 U	580 U	550 U	580 U	630 U	560 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	180 U	190 U	210 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5	SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0	SL-051-SA8N-SB-7.5-8.5
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/02/2011	05/02/2011	06/17/2011
SDG		DE140	DE140	DE125	DE141	DE141	DE183
Start Depth		4	8	0	4	9	7.5
End Depth		5	9	0.5	5	10	8.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	97.8	123	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Nitrobenzene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Hexachlorobutadiene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	200 UJ L	200 U	200 U	180 U
4-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
4-Nitrophenol	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
4-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
4-Chloroaniline	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Phenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	20 J Z	--	27 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	--	21 U	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	8.6 J Z	9.2 J Z	22 UJ C	9.0 J Z	9.0 J Z	20 U
Hexachlorobenzene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	3.1	2.0 U	1.9 U	1.4 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	22 U	21 U	21 U	20 U
Dibenzofuran	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	2.0 U	0.88 J Z	2.0 U	1.9 U	1.2 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	0.90 J Z	2.0 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U	3.1 J C	2.0 U	1.9 U	1.2 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U	3.7	2.0 U	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U	0.91 J Z	2.0 U	1.9 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5	SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0	SL-051-SA8N-SB-7.5-8.5
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/02/2011	05/02/2011	06/17/2011
SDG		DE140	DE140	DE125	DE141	DE141	DE183
Start Depth		4	8	0	4	9	7.5
End Depth		5	9	0.5	5	10	8.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	2.0 U	3.9	2.0 U	1.9 U	3.9
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.4 J Z	2.0 U	1.9 U	0.78 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1200 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.6 J Z	2.0 U	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Aniline	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
Benzoic Acid	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
Hexachloroethane	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
Isophorone	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	22 U	21 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	22 U	21 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.1	2.0 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	22 U	21 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Fluorene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
Carbazole	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Pentachlorophenol	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
2-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
2-Nitrophenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
Naphthalene	ug/kg	1.9 U	2.0 U	2.2	2.0 U	1.9 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	400 U	410 U	400 U	400 U	370 U
Benzidine	ug/kg	3700 U	4000 U	4100 U	4000 U	4000 U	3700 U
2-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
2-Chlorophenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0	SL-050-SA8N-SS-0.0-0.5	SL-050-SA8N-SB-4.0-5.0	SL-050-SA8N-SB-9.0-10.0	SL-051-SA8N-SB-7.5-8.5
Sample Date		04/29/2011	04/29/2011	04/12/2011	05/02/2011	05/02/2011	06/17/2011
SDG		DE140	DE140	DE125	DE141	DE141	DE183
Start Depth		4	8	0	4	9	7.5
End Depth		5	9	0.5	5	10	8.5
3-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U
Benzyl Alcohol	ug/kg	560 U	590 U	610 U	590 U	590 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	200 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5	SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-062-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	05/05/2011	05/05/2011	04/18/2011	05/05/2011	05/05/2011	04/15/2011
SDG		DE130	DE144	DE144	DE130	DE144	DE144	DE129
Start Depth		0	4	7	0	4	7	0
End Depth		0.5	5	8	0.5	5	8	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	42.7	37.7 UJ Q	35.4 U	37.2 U	25.2 J S, Z	24.5 J Z	37.6 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J Z	380 U B	360 U B	--	380 U B	360 U B	31 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	20 U	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	190 U	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 UJ C	--	--	20 UJ C	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	180 U	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.3 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.4 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.6 J C	0.95 J Z	1.8 U	1.9 UJ C	0.90 J Z	1.8 U	1.2 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.3	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.5 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.0 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5	SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-062-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	05/05/2011	05/05/2011	04/18/2011	05/05/2011	05/05/2011	04/15/2011
SDG		DE130	DE144	DE144	DE130	DE144	DE144	DE129
Start Depth		0	4	7	0	4	7	0
End Depth		0.5	5	8	0.5	5	8	0.5
Chrysene (8270C)	ug/kg	--	--	180 U	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 J Z	1.9 U	--	0.41 J Z	1.9 U	1.8 U	1.2 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.3 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
Benzoic Acid	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
Isophorone	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	21 U	20 U	25
Phenanthrene (8270C)	ug/kg	--	--	180 U	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.0 J Z	1.9 U	--	1.9 U	1.9 U	1.8 U	1.1 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.0 J Z	1.9 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.8 U	1.2 J Z	0.90 J Z	1.8 U	0.92 J Z
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	0.96 J Z	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	360 U	370 U	380 U	360 U	380 U
Benzidine	ug/kg	3900 U	3800 UJ Q	3600 U	3700 U	3800 U	3600 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5	SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-062-SA8N-SS-0.0-0.5
Sample Date		04/18/2011	05/05/2011	05/05/2011	04/18/2011	05/05/2011	05/05/2011	04/15/2011
SDG		DE130	DE144	DE144	DE130	DE144	DE144	DE129
Start Depth		0	4	7	0	4	7	0
End Depth		0.5	5	8	0.5	5	8	0.5
3-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	580 U	560 U	530 U	560 U	570 U	550 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5
Sample Date		05/05/2011	04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011
SDG		DE144	DE129	DE143	DE130	DE175	DE131	DE131
Start Depth		4	0	4	0	2	0	0
End Depth		5	0.5	5	0.5	3	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	19.7 J Z	62	70.6	22.1 J Z	33.0 J Z	388 U B	375 U B
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	200 U	200 U	180 UJ L	190 U	190 U
4-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	200 U	200 U	180 U	190 UJ L	190 UJ L
2,4-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Phenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	380 U	21 J Z	25 J Z	31 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	19 U	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	22 U	9.3 J Z	21 UJ C	19 U	21 U	20 U
Hexachlorobenzene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	1.3 J Z	1.8 U	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	19 U	21 U	20 U
Dibenzofuran	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	1.1 J Z	1.8 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	0.79 J Z	1.8 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.88 J Z	2.0 U	1.0 J Z	1.9 J Z, C	1.8 U	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	1.4 J Z	1.8 U	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5
Sample Date		05/05/2011	04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011
SDG		DE144	DE129	DE143	DE130	DE175	DE131	DE131
Start Depth		4	0	4	0	2	0	0
End Depth		5	0.5	5	0.5	3	0.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	0.47 J Z	2.0 U	1.5 J Z	1.8 U	1.9 U	2.3
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1200 U	1100 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Aniline	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
Benzoic Acid	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
Hexachloroethane	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
Isophorone	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	19 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	19 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	190 U	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	--	2.0 U	2.0 U	1.2 J Z	1.8 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	19 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Fluorene	ug/kg	1.9 U	2.0 U	2.0 U	1.5 J Z	1.8 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.9 U	2.0 U	2.0 U	1.6 J Z	1.8 U	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	410 U	400 U	390 U	360 U	390 U	370 U
Benzidine	ug/kg	3800 U	4100 U	4000 U	3900 U	3600 U	3900 U	3700 U
2-Methylphenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-062-SA8N-SB-4.0-5.0	SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5
Sample Date		05/05/2011	04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011
SDG		DE144	DE129	DE143	DE130	DE175	DE131	DE131
Start Depth		4	0	4	0	2	0	0
End Depth		5	0.5	5	0.5	3	0.5	0.5
3-Nitroaniline	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	610 U	600 U	590 U	540 U	580 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	200 U	200 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011
SDG		DE176	DE176	DE131	DE127	DE146	DE127	DE174
Start Depth		4	7.5	0	0	4	0	4
End Depth		5	8.5	0.5	0.5	5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	37.4 UJ FD, Q	22.5 J S, Z	429 U B	38.5 U	37.8 U	398 U	38.3 U B
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	190 UJ L	210 U	190 U	190 U	200 U	190 UJ L
4-Nitroaniline	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	210 UJ L	190 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Phenol	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	370 UJ B, FD	380 U B	43 J Z	21 J Z	--	33 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	20 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	10 J Z	9.1 J Z	20 U	22 U	20 U
Hexachlorobenzene	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 J Z	1.9 U	1.9 U	2.0 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	23 U	21 U	20 U	22 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 J Z	1.9 U	1.9 U	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.2 J Z	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.6	1.9 U	1.9 U	2.0 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.7	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.89 J Z	1.9 U	1.9 U	2.0 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011
SDG		DE176	DE176	DE131	DE127	DE146	DE127	DE174
Start Depth		4	7.5	0	0	4	0	4
End Depth		5	8.5	0.5	0.5	5	0.5	5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	3	0.67 J Z	1.9 U	0.49 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.2 J Z	1.9 U	1.9 U	2.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1300 U	1200 U	1100 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Aniline	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
Benzoic Acid	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
Hexachloroethane	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
Isophorone	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	23 U	21 U	20 U	22 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	23 U	21 U	20 U	22 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 J Z	0.95 J Z	1.9 U	2.0 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	23 U	21 U	20 U	22 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
Fluorene	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Carbazole	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	560 U	570 U	640 U	580 U	570 U	600 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	190 UJ L	190 UJ L	210 U	190 U	190 U	200 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Naphthalene	ug/kg	0.94 J Z	1.1 J Z	1.3 J Z	1.9 U	1.9 U	2.0 U	1.9 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	420 U	380 U	380 U	400 U	380 U
Benzidine	ug/kg	3700 R Q	3800 U	4200 U	3800 U	3800 U	4000 U	3800 U
2-Methylphenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 UJ Q	190 U	210 U	190 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-076-SA8N-SB-4.0-5.0	SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011
SDG		DE176	DE176	DE131	DE127	DE146	DE127	DE174
Start Depth		4	7.5	0	0	4	0	4
End Depth		5	8.5	0.5	0.5	5	0.5	5
3-Nitroaniline	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	560 UJ Q	570 U	640 U	580 U	570 U	600 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	210 U	190 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SS-0.0-0.5
Sample Date		06/06/2011	04/18/2011	05/04/2011	04/14/2011	04/18/2011	04/18/2011
SDG		DE174	DE130	DE143	DE127	DE130	DE130
Start Depth		9	0	4	0	0	0
End Depth		10	0.5	5	0.5	0.5	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	39.1 U B	38.2 J Z	44.1	19.2 J Z	252 J Z	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	200 U	190 U	190 U	190 U	200 U
4-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Nitrophenol	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Chloroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Phenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	30 J Z	--	19 J Z	32 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	6.8 J Z	--	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	22 UJ C	9.2 J Z	9.1 J Z	21 UJ C	21 UJ C
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	0.46 J Z	0.61 J Z	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	55 J Z	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 J Z	1.9 U	3	--	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	22 U	20 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.5 J Z	1.9 U	1.5 J Z	1.9	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.9 U	1.1 J Z	1.7 J Z	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.3 J C	1.3 J Z	3.3	6.2 J C	2.0 UJ C
Fluoranthene (8270C)	ug/kg	--	--	--	--	57 J Z	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.4	1.9 U	5	--	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	0.94 J Z	1.9 U	1.5 J Z	2.7	2.0 U
Acenaphthylene	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SS-0.0-0.5
Sample Date		06/06/2011	04/18/2011	05/04/2011	04/14/2011	04/18/2011	04/18/2011
SDG		DE174	DE130	DE143	DE127	DE130	DE130
Start Depth		9	0	4	0	0	0
End Depth		10	0.5	5	0.5	0.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	2	1.9 U	4.1	5	0.52 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.9 U	1.6 J Z	2.9	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1100 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.0 J Z	1.9 U	1.2 J Z	2.6	2.0 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Aniline	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
Benzoic Acid	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
Isophorone	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	22 U	20 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	22 U	20 U	20 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	41 J Z	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.4 J Z	1.9 U	2.2	--	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	22 U	20 U	20 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Fluorene	ug/kg	1.9 U	2.0 U	1.9 U	0.83 J Z	1.9 U	2.0 U
Carbazole	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Pentachlorophenol	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U
Naphthalene	ug/kg	1.9 U	1.0 J Z	1.9 U	1.8	1.1 J Z	1.2 J Z
2-Methylnaphthalene	ug/kg	1.9 U	2.0 U	1.9 U	0.88 J Z	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	390 U	400 U	380 U	370 U	380 U	390 U
Benzidine	ug/kg	3900 U	4000 U	3800 U	3700 U	3800 U	3900 UJ C
2-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-079-SA8N-SB-9.0-10.0	SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SS-0.0-0.5
Sample Date		06/06/2011	04/18/2011	05/04/2011	04/14/2011	04/18/2011	04/18/2011
SDG		DE174	DE130	DE143	DE127	DE130	DE130
Start Depth		9	0	4	0	0	0
End Depth		10	0.5	5	0.5	0.5	0.5
3-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U
Benzyl Alcohol	ug/kg	580 U	610 U	570 U	560 U	580 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0	SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-090-SA8N-SS-0.0-0.5
Sample Date		05/06/2011	05/09/2011	05/09/2011	05/09/2011	04/14/2011	04/14/2011
SDG		DE145	DE146	DE146	DE146	DE127	DE127
Start Depth		6.5	4	9	3	0	0
End Depth		7.5	5	10	4	0.5	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	22.2 J Z	39.3 U	38.2 U	91.5	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Nitrobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Hexachlorobutadiene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
4-Nitroaniline	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
4-Nitrophenol	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
4-Methylphenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
4-Chloroaniline	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Phenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U B, Z	--	--	--	24 J Z	27 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	21 U	20 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U
Hexachlorobenzene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	1.4 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	1.5 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Acenaphthylene	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0	SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-090-SA8N-SS-0.0-0.5
Sample Date		05/06/2011	05/09/2011	05/09/2011	05/09/2011	04/14/2011	04/14/2011
SDG		DE145	DE146	DE146	DE146	DE127	DE127
Start Depth		6.5	4	9	3	0	0
End Depth		7.5	5	10	4	0.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	0.41 J Z	1.7 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1200 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Aniline	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
Benzoic Acid	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
Hexachloroethane	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Hexachlorocyclopentadiene	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
Isophorone	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	1.3 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Fluorene	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Carbazole	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Pentachlorophenol	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
2-Nitroaniline	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
2-Nitrophenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
1-Methylnaphthalene	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Naphthalene	ug/kg	1.8 U	1.9 U	1.9 U	1.1 J Z	2.0 U	1.0 J Z
2-Methylnaphthalene	ug/kg	1.8 U	1.9 U	1.9 U	0.83 J Z	2.0 U	2.0 U
2-Chloronaphthalene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	390 U	380 U	390 U	390 U
Benzidine	ug/kg	3600 U	3800 U	3900 U	3800 U	3900 U	3900 U
2-Methylphenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
2-Chlorophenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0	SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-090-SA8N-SS-0.0-0.5
Sample Date		05/06/2011	05/09/2011	05/09/2011	05/09/2011	04/14/2011	04/14/2011
SDG		DE145	DE146	DE146	DE146	DE127	DE127
Start Depth		6.5	4	9	3	0	0
End Depth		7.5	5	10	4	0.5	0.5
3-Nitroaniline	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U
Benzyl Alcohol	ug/kg	540 U	580 U	590 U	570 U	590 U	590 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	200 U	190 U	200 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-091-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-094-SA8N-SB-7.5-8.5	SL-095-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/19/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011
SDG		DE127	DE131	DE131	DE131	DE150	DE150	DE131
Start Depth		0	0	0	0	4	7.5	0
End Depth		0.5	0.5	0.5	0.5	5	8.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	372 U	381 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	510	190 U	180 U	200 U	190 U	190 U
Nitrobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Hexachlorobutadiene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
4-Nitroaniline	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
4-Nitrophenol	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 UJ L	190 UJ L	180 UJ L	200 U	190 U	190 UJ L
2,4-Dimethylphenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
4-Methylphenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
4-Chloroaniline	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Phenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	31 J Z	27 J Z	32 J Z	27 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	9.2 J L, Z	7.4 J L, Z	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	200 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	21 U	19 U	22 U	20 U	20 U
Hexachlorobenzene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	9.8 U	1.0 J Z	1.2 J Z	1.8 U	2.0 U	1.9 U	0.98 J Z
Dimethylphthalate (8270C)	ug/kg	200 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	19 U	22 U	20 U	20 U
Dibenzofuran	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	9.8 U	1.1 J Z	1.4 J Z	1.8 U	2.0 U	1.9 U	0.87 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.8 U	0.81 J Z	1.2 J Z	1.8 U	2.0 U	1.9 U	1.0 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	9.8 U	1.6 J Z	2.1	1.8 U	0.88 J Z	1.9 U	1.3 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.0 J Z	1.6 J Z	1.6 J Z	1.8 U	2.0 U	1.9 U	1.5 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-091-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-094-SA8N-SB-7.5-8.5	SL-095-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/19/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011
SDG		DE127	DE131	DE131	DE131	DE150	DE150	DE131
Start Depth		0	0	0	0	4	7.5	0
End Depth		0.5	0.5	0.5	0.5	5	8.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	3.3 J Z	1.6 J Z	2.8	1.8 U	2.0 U	1.9 U	1.1 J Z
bis(2-Chloroisopropyl) ether	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.8 U	1.9 U	0.93 J Z	1.8 U	2.0 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1200 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Aniline	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
Benzoic Acid	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
Hexachloroethane	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
Isophorone	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	200 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	19 U	22 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	200 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	19 U	22 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	9.8 U	1.2 J Z	1.0 J Z	1.8 U	2.0 U	1.9 U	0.89 J Z
Butylbenzylphthalate (8270C)	ug/kg	200 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	19 U	22 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Fluorene	ug/kg	9.8 U	1.7 J Z	1.8 J Z	1.8 U	2.0 U	1.9 U	1.9 U
Carbazole	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Pentachlorophenol	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
2-Nitroaniline	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
2-Nitrophenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
1-Methylnaphthalene	ug/kg	9.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Naphthalene	ug/kg	6.1 J Z	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	4.0 J Z	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	400 U	370 U	380 U	360 U	400 U	380 U	370 U
Benzidine	ug/kg	4000 U	3700 U	3800 U	3600 U	4000 UJ Q	3800 U	3700 U
2-Methylphenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
2-Chlorophenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-091-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-094-SA8N-SB-7.5-8.5	SL-095-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/19/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011
SDG		DE127	DE131	DE131	DE131	DE150	DE150	DE131
Start Depth		0	0	0	0	4	7.5	0
End Depth		0.5	0.5	0.5	0.5	5	8.5	0.5
3-Nitroaniline	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U
Benzyl Alcohol	ug/kg	590 U	550 U	570 U	540 U	600 U	560 U	560 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	190 U	180 U	200 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SS-0.0-0.5	SL-096-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-9.0-10.0	SL-097-SA8N-SS-0.0-0.5	SL-097-SA8N-SB-4.0-5.0
Sample Date		05/13/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011	05/12/2011
SDG		DE150	DE131	DE150	DE150	DE131	DE149
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 UJ L
4-Nitroaniline	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 UJ L	200 U	190 U	190 UJ L	190 UJ L
2,4-Dimethylphenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	24 J Z	21 J Z	--	25 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.7 J L, Z	--	21 U	21 U	--	7.4 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	0.49 J Z	1.9 U	1.9 U	0.88 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	0.89 J Z	1.9 U	1.9 U	2.1	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.2 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	0.84 J Z	1.9 U	1.9 U	2.1	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	1.9 U	1.9	2.7	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 U	1.9 U	3.3	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	0.95 J Z	1.9 U
Acenaphthylene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SS-0.0-0.5	SL-096-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-9.0-10.0	SL-097-SA8N-SS-0.0-0.5	SL-097-SA8N-SB-4.0-5.0
Sample Date		05/13/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011	05/12/2011
SDG		DE150	DE131	DE150	DE150	DE131	DE149
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	0.86 J Z	1.9 U	1.9 U	2.3	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.2 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1200 U	1200 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.1 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Aniline	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
Benzoic Acid	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
Hexachloroethane	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
Isophorone	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.0 J Z	1.9 U	1.9 U	2.7	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Fluorene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.6 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	0.92 J Z	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	360 U	390 U	380 U	380 U	390 U
Benzidine	ug/kg	3900 U	3600 U	3900 U	3800 U	3800 U	3900 U
2-Methylphenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SS-0.0-0.5	SL-096-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-9.0-10.0	SL-097-SA8N-SS-0.0-0.5	SL-097-SA8N-SB-4.0-5.0
Sample Date		05/13/2011	04/19/2011	05/13/2011	05/13/2011	04/19/2011	05/12/2011
SDG		DE150	DE131	DE150	DE150	DE131	DE149
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
3-Nitroaniline	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	540 U	590 U	580 U	570 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-098-SA8N-SS-0.0-0.5	SL-098-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-9.0-10.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0
Sample Date		04/20/2011	05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011
SDG		DE132	DE149	DE149	DE149	DE132	DE149
Start Depth		0	4	9	4	0	4
End Depth		0.5	5	10	5	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	91.3	389 U	27.3 J Z
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Nitrobenzene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Hexachlorobutadiene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	200 U	190 UJ L	190 UJ L	190 UJ L	190 U	200 UJ L
4-Nitroaniline	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
4-Nitrophenol	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 UJ L	190 UJ L	190 UJ L	190 U	200 UJ L
2,4-Dimethylphenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
4-Methylphenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
4-Chloroaniline	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Phenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	36 J Z	--	--	22 J Z	43 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	8.8 J Z	7.0 J Z	--	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	22 U	21 U	21 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.43 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.93 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	22 U	21 U	21 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.2 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.0 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.5	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.2 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.1 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Acenaphthylene	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA8N-SS-0.0-0.5	SL-098-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-9.0-10.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0
Sample Date		04/20/2011	05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011
SDG		DE132	DE149	DE149	DE149	DE132	DE149
Start Depth		0	4	9	4	0	4
End Depth		0.5	5	10	5	0.5	5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.6 J Z	2.0 U	1.9 U	1.9 U	0.46 J Z	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.5 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Aniline	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
Benzoic Acid	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
Hexachloroethane	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
Isophorone	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	22 U	21 U	21 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	22 U	8.4 J Z	21 U	7.1 J Z	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	22 U	21 U	21 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Fluorene	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Carbazole	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Pentachlorophenol	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
2-Nitroaniline	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
2-Nitrophenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
1-Methylnaphthalene	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
Naphthalene	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2-Methylnaphthalene	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	400 U	390 U	380 U	380 U	390 U	390 U
Benzidine	ug/kg	4000 U	3900 U	3800 U	3800 U	3900 U	3900 U
2-Methylphenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
2-Chlorophenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-098-SA8N-SS-0.0-0.5	SL-098-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-9.0-10.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0
Sample Date		04/20/2011	05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011
SDG		DE132	DE149	DE149	DE149	DE132	DE149
Start Depth		0	4	9	4	0	4
End Depth		0.5	5	10	5	0.5	5
3-Nitroaniline	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U
Benzyl Alcohol	ug/kg	600 U	580 U	580 U	570 U	580 U	590 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	190 U	190 U	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-104-SA8N-SB-9.0-10.0	SL-105-SA8N-SB-4.0-5.0
Sample Date		05/12/2011	04/20/2011	05/12/2011	05/13/2011	05/13/2011	05/10/2011
SDG		DE149	DE132	DE149	DE150	DE150	DE147
Start Depth		7	0	3	4	9	4
End Depth		8	0.5	4	5	10	5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	26.1 J Z	228	46.0 J S	--	--	66.4 J S
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	200 UJ L	190 U	200 UJ L	190 U	200 U	190 UJ L
4-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	200 UJ L	190 U	200 UJ L	190 U	200 U	190 UJ L
2,4-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Phenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	36 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	7.4 J Z	20 U	42 UJ S	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	17 J Z	21 U	20 U	42 UJ S	21 U
Hexachlorobenzene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U
2,4-Dichlorophenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	3.3	2.0 U	1.9 U	3.9 UJ S	0.89 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	42 UJ S	21 U
Dibenzofuran	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.4 J Z	2.0 U	1.9 U	3.9 UJ S	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	2.0 U	1.9 U	3.9 UJ S	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	4.1	2.0 U	1.9 U	3.9 UJ S	2.0 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4.1	2.0 U	1.9 U	3.9 UJ S	1.2 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.1	2.0 U	1.9 U	3.9 UJ S	2.0 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-104-SA8N-SB-9.0-10.0	SL-105-SA8N-SB-4.0-5.0
Sample Date		05/12/2011	04/20/2011	05/12/2011	05/13/2011	05/13/2011	05/10/2011
SDG		DE149	DE132	DE149	DE150	DE150	DE147
Start Depth		7	0	3	4	9	4
End Depth		8	0.5	4	5	10	5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	3.5	2.0 U	1.9 U	3.9 UJ S	0.59 J Z
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	2.1	2.0 U	1.9 U	3.9 UJ S	2.0 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1200 U	1100 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.5 J Z	2.0 U	1.9 U	3.9 UJ S	2.0 U
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Aniline	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
Benzoic Acid	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
Hexachloroethane	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
Isophorone	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	42 UJ S	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	42 UJ S	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2.1	2.0 U	1.9 U	3.9 UJ S	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	20 U	42 UJ S	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Fluorene	ug/kg	1.9 U	0.87 J Z	2.0 U	1.9 U	3.9 UJ S	2.0 U
Carbazole	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U
Naphthalene	ug/kg	1.9 U	1.1 J Z	2.0 U	1.9 U	3.9 UJ S	0.87 J Z
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 UJ S	2.0 U
2-Chloronaphthalene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	400 U	380 U	390 U	390 U
Benzidine	ug/kg	3900 U	3800 U	4000 U	3800 U	3900 U	3900 U
2-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5	SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-104-SA8N-SB-9.0-10.0	SL-105-SA8N-SB-4.0-5.0
Sample Date		05/12/2011	04/20/2011	05/12/2011	05/13/2011	05/13/2011	05/10/2011
SDG		DE149	DE132	DE149	DE150	DE150	DE147
Start Depth		7	0	3	4	9	4
End Depth		8	0.5	4	5	10	5
3-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	590 U	570 U	590 U	570 U	590 U	580 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0
Sample Date		06/08/2011	04/20/2011	06/08/2011	06/08/2011	04/21/2011	06/10/2011
SDG		DE176	DE132	DE176	DE176	DE134	DE178
Start Depth		2.5	0	4	9	0	3
End Depth		3.5	0.5	5	10	0.5	4
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	31.0 J Z	616 J Z	37.6 U	380 UJ H	69.6	36.1 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	840 U	190 UJ L	190 UJ L	190 U	180 U
4-Nitroaniline	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Phenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	520 J Z	380 U B	380 U B	36 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	--	--	21 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	190 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	230	20 U	21 U	--	20 U
Hexachlorobenzene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	3.5 J Z	1.9 U	1.9 U	9.3 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	100 J Z	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	3.8 J Z	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	190 U	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	90 U	20 U	21 U	--	20 U
Dibenzofuran	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	98 J Z	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	4.0 J Z	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	15	1.9 U	1.9 U	9.3 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	100 J Z	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	5.1 J Z, C	1.8 U
Fluoranthene (8270C)	ug/kg	--	110 J Z	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	5.1 J Z	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	20	1.9 U	1.9 U	9.3 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.9 J Z	1.9 U	1.9 U	9.3 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0
Sample Date		06/08/2011	04/20/2011	06/08/2011	06/08/2011	04/21/2011	06/10/2011
SDG		DE176	DE132	DE176	DE176	DE134	DE178
Start Depth		2.5	0	4	9	0	3
End Depth		3.5	0.5	5	10	0.5	4
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	54	1.9 U	1.9 U	4.3 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	27	1.9 U	1.9 U	9.3 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 U	5000 U	1100 U	1200 U	1100 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	2500 U	570 U	580 U	560 UJ C	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	11	1.9 U	1.9 U	9.3 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	16	1.9 U	1.9 U	9.3 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Aniline	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
Benzoic Acid	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
Hexachloroethane	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
Isophorone	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	190 U	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	90 U	20 U	21 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	110 J Z	--	--	190 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	--	20 U	21 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	28	1.9 U	1.9 U	9.3 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	190 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	110	20 U	21 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Fluorene	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
Carbazole	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	190 UJ L	840 U	190 UJ L	190 UJ L	190 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
Naphthalene	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	8.4 U	1.9 U	1.9 U	9.3 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	1700 U	380 U	380 U	370 U	370 U
Benzidine	ug/kg	3800 U	17000 U	3800 U	3800 U	3700 U	3700 U
2-Methylphenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0	SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0
Sample Date		06/08/2011	04/20/2011	06/08/2011	06/08/2011	04/21/2011	06/10/2011
SDG		DE176	DE132	DE176	DE176	DE134	DE178
Start Depth		2.5	0	4	9	0	3
End Depth		3.5	0.5	5	10	0.5	4
3-Nitroaniline	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	570 U	2500 U	570 U	580 U	560 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	840 U	190 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/21/2011	06/09/2011	04/21/2011	04/21/2011	04/21/2011
SDG		DE134	DE134	DE134	DE177	DE134	DE134	DE134
Start Depth		0	0	0	4	0	0	0
End Depth		0.5	0.5	0.5	5	0.5	0.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	34.5 J Z	372 U	242 J Z	384 U	84.1	389 U	101 J Q
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
4-Nitrophenol	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Phenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	28 J Z	20 J Z	33 J Z	380 U B	34 J Z	46 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	--	56
Di-N-Octyl Phthalate (8270C)	ug/kg	--	190 U	200 U	--	170 U	190 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 UJ C	--	--	21 U	--	--	19 UJ C
Hexachlorobenzene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.1 J Z	4.6 J Z	1.9 U	8.7 U	9.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	27 J L, Z	--
Pyrene (8270C SIM)	ug/kg	1.9 U	61	19	1.9 U	6.1 J Z	--	1.7 J Z
Dimethylphthalate (8270C)	ug/kg	--	190 U	200 U	--	170 U	190 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	--	21 U	--	--	19 U
Dibenzofuran	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	24 J Z	23 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	90	16	1.9 U	--	--	1.8 J FD
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	88	13	1.9 U	4.0 J Z	5.2 J Z	1.0 J FD, Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	17 J Z	26 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.0 J Z, C	220 J C	24 J C	1.9 U	--	--	2.6 J C
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	23 J Z	--
Fluoranthene (8270C SIM)	ug/kg	0.93 J Z	77	28	1.9 U	6.1 J Z	--	2.3
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	74	8.1 J Z	1.9 U	8.7 U	3.9 J Z	0.75 J Z
Acenaphthylene	ug/kg	1.9 U	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/21/2011	06/09/2011	04/21/2011	04/21/2011	04/21/2011
SDG		DE134	DE134	DE134	DE177	DE134	DE134	DE134
Start Depth		0	0	0	4	0	0	0
End Depth		0.5	0.5	0.5	5	0.5	0.5	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	31 J Z	39 J Z	--
Chrysene (8270C SIM)	ug/kg	0.95 J Z	120	15	1.9 U	--	--	2.2
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	140	18	1.9 U	7.8 J Z	9.0 J Z	1.8 J FD
2,4-Dinitrophenol	ug/kg	1100 UJ L	1100 UJ L	1200 UJ L	1200 U	1000 UJ L	1200 UJ L	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	560 UJ C	560 UJ C	590 UJ C	580 U	520 U	580 U	530 UJ C
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	25	4.1 J Z	1.9 U	3.6 J Z	9.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	110	12	1.9 U	5.4 J Z	6.0 J Z	1.4 J FD, Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Aniline	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
Benzoic Acid	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
Hexachloroethane	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
Isophorone	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	190 U	200 U	--	170 U	190 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	--	21 U	--	--	8.9 J FD, Q, Z
Di-n-Butylphthalate (8270C)	ug/kg	--	190 U	200 U	--	170 U	190 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	--	21 U	--	--	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.76 J Z	9.3 U	15	1.9 U	8.7 U	9.7 U	1.4 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	190 U	200 U	--	170 U	190 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	--	21 U	--	--	19 UJ FD
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Fluorene	ug/kg	0.82 J Z	9.3 U	5.1 J Z	1.9 U	8.7 U	9.7 U	1.8 U
Carbazole	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Pentachlorophenol	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U
Naphthalene	ug/kg	1.1 J Z	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	9.3 U	10 U	1.9 U	8.7 U	9.7 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	370 U	400 U	380 U	350 U	390 U	350 U
Benzidine	ug/kg	3800 U	3700 U	4000 U	3800 U	3500 U	3900 U	3500 R Q
2-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5	SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/21/2011	06/09/2011	04/21/2011	04/21/2011	04/21/2011
SDG		DE134	DE134	DE134	DE177	DE134	DE134	DE134
Start Depth		0	0	0	4	0	0	0
End Depth		0.5	0.5	0.5	5	0.5	0.5	0.5
3-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U
Benzyl Alcohol	ug/kg	560 U	560 U	590 U	580 U	520 U	580 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	170 U	190 U	180 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5
Sample Date		04/20/2011	05/11/2011	05/11/2011	04/19/2011	06/07/2011	04/21/2011
SDG		DE132	DE148	DE148	DE131	DE175	DE134
Start Depth		0	4	9	0	2	0
End Depth		0.5	5	10	0.5	3	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	149 J FD, Q	34.5 J Z	55.2	348 U	26.6 J Z	254 J Z
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.9 U	18 U	1.9 U	1.7 U	1.8 U	2.0 U
2,4-Dinitrotoluene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Nitrobenzene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1,4-Dichlorobenzene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1,2,4-Trichlorobenzene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1,3-Dichlorobenzene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Hexachlorobutadiene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1,2-Dichlorobenzene	ug/kg	180 U	900 UJ L	190 UJ L	170 U	180 UJ L	200 U
4-Nitroaniline	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
4-Nitrophenol	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	900 UJ L	190 UJ L	170 UJ L	180 U	200 U
2,4-Dimethylphenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
4-Methylphenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
4-Chloroaniline	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
3,5-Dimethylphenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Phenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	28 J Z	--	26 J Z	27 J Z	--	48 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	200 U	--	--	19 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	200 U	21 U	19 U	19 U	22 UJ C
Hexachlorobenzene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
2,4-Dichlorophenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1,2-Diphenylhydrazine	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	6.6 J FD, Q, Z	11 J Z	1.1 J Z	1.2 J Z	1.8 U	3.3
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	200 U	21 U	19 U	19 U	22 U
Dibenzofuran	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	4.2 J FD, Z	13 J Z	1.9 U	1.2 J Z	1.8 U	1.9 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.1 J Z	1.8 U	1.4 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	8.1 J FD, Q, Z	37	3.6	1.7	1.8 U	4.2 J C
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	9.5 J FD	10 J Z	1.3 J Z	1.6 J Z	1.8 U	4.7
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	2	1.5 J Z
Acenaphthylene	ug/kg	8.9 U	18 U	1.9 U	1.7 U	1.8 U	2.0 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5
Sample Date		04/20/2011	05/11/2011	05/11/2011	04/19/2011	06/07/2011	04/21/2011
SDG		DE132	DE148	DE148	DE131	DE175	DE134
Start Depth		0	4	9	0	2	0
End Depth		0.5	5	10	0.5	3	0.5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	6.9 J FD, Z	22	1.1 J Z	1.4 J Z	1.8 U	3.4
bis(2-Chloroisopropyl) ether	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	3.6 J FD, Z	18 U	0.90 J Z	0.85 J Z	1.8 U	2
2,4-Dinitrophenol	ug/kg	1100 U	5400 U	1100 U	1000 U	1100 U	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	1.4 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Aniline	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
Benzoic Acid	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
Hexachloroethane	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
4-Chlorophenyl Phenylether	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Hexachlorocyclopentadiene	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
Isophorone	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	200 U	21 U	19 U	19 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	180 UJ FD	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	200 U	7.3 J Z	19 U	19 U	7.5 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	5.4 J FD, Z	18 U	1.9 U	0.86 J Z	1.8 U	2.6
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	200 U	21 U	19 U	19 U	22 U
N-Nitrosodiphenylamine	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Fluorene	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
Carbazole	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Pentachlorophenol	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
2,4,6-Trichlorophenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
2-Nitroaniline	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
2-Nitrophenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
1-Methylnaphthalene	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
Naphthalene	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	0.90 J Z	1.8 J Z
2-Methylnaphthalene	ug/kg	8.9 UJ FD	18 U	1.9 U	1.7 U	1.8 U	2.0 U
2-Chloronaphthalene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
3,3`-Dichlorobenzidine	ug/kg	350 U	1800 U	380 U	340 U	360 U	400 U
Benzidine	ug/kg	3500 R Q	18000 U	3800 U	3400 U	3600 U	4000 U
2-Methylphenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
2-Chlorophenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
2,4,5-Trichlorophenol	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U

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Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0	SL-125-SA8N-SS-0.0-0.5
Sample Date		04/20/2011	05/11/2011	05/11/2011	04/19/2011	06/07/2011	04/21/2011
SDG		DE132	DE148	DE148	DE131	DE175	DE134
Start Depth		0	4	9	0	2	0
End Depth		0.5	5	10	0.5	3	0.5
3-Nitroaniline	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U
Benzyl Alcohol	ug/kg	530 U	2700 U	570 U	520 U	540 U	600 U
2,6-Dinitrotoluene	ug/kg	180 U	900 U	190 U	170 U	180 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5	SL-129-SA8N-SB-4.0-5.0
Sample Date		04/21/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011
SDG		DE134	DE132	DE147	DE132	DE147	DE132	DE147
Start Depth		0	0	4	0	2.5	0	4
End Depth		0.5	0.5	5	0.5	3.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	370 U	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 UJ L	200 U	180 UJ L	180 U	180 UJ L
4-Nitroaniline	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 UJ L	200 U	180 UJ L	180 U	180 UJ L
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	50 J Z	39 J Z	--	39 J Z	--	22 J Z	20 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	12 J Z	--	9.4 J Z	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 UJ C	--	20 U	21 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.40 J Z	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	4.1	8.9 U	1.9 U	2.1	1.8 U	1.8 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	21 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.6	8.9 U	1.9 U	1.1 J Z	1.8 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	5.0 J C	3.8 J Z	1.9 U	2.9	1.8 U	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.6	8.9 U	1.9 U	2.7	1.8 U	1.8 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.4	8.9 U	1.9 U	0.87 J Z	1.8 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5	SL-129-SA8N-SB-4.0-5.0
Sample Date		04/21/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011
SDG		DE134	DE132	DE147	DE132	DE147	DE132	DE147
Start Depth		0	0	4	0	2.5	0	4
End Depth		0.5	0.5	5	0.5	3.5	0.5	5
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	4.3	3.1 J Z	1.9 U	2.1	1.8 U	0.40 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.5	8.9 U	1.9 U	1.0 J Z	1.8 U	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 UJ L	1100 U	1100 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.1	8.9 U	1.9 U	0.91 J Z	1.8 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Aniline	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
Benzoic Acid	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
Isophorone	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	21 U	20 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	1100	--	23 J Z	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	--	7.6 J Z	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.8	8.9 U	1.9 U	1.2 J Z	1.8 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	26 J L, Z	20 J Z	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Fluorene	ug/kg	2.4	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
1-Methylnaphthalene	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Naphthalene	ug/kg	1.2 J Z	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
2-Methylnaphthalene	ug/kg	1.8 U	8.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	400 U	360 U	360 U	370 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	4000 U	3600 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5	SL-129-SA8N-SB-4.0-5.0
Sample Date		04/21/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011
SDG		DE134	DE132	DE147	DE132	DE147	DE132	DE147
Start Depth		0	0	4	0	2.5	0	4
End Depth		0.5	0.5	5	0.5	3.5	0.5	5
3-Nitroaniline	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	530 U	560 U	600 U	540 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	200 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-130-SA8N-SS-0.0-0.5	SL-131-SA8N-SS-0.0-0.5	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/12/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011
SDG		DE127	DE125	DE130	DE127	DE174	DE175	DE127
Start Depth		0	0	0	0	4	7	0
End Depth		0.5	0.5	0.5	0.5	5	8	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	36.0 U	300 J FD, Z	39.3 U B	37.9 U	37.8 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.7 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	960 UJ L	180 U	190 U	190 UJ L	190 UJ L	190 U
4-Nitroaniline	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	31 J Z	--	37 J Z	67 J Z	--	--	21 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U F, Z	--	--	21 U	20 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	48 J Z	21 UJ C	20 UJ C	21 U	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.5 J Z	15	0.88 J Z	1.9 U	1.9 U	0.42 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	37 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	15	170	9.4	--	1.9 U	1.9 U	3.8
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	21 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	7.4 J Z	19	3.3	1.2 J Z	1.9 U	1.9 U	1.8 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.7 U	20	2.6	0.93 J Z	1.9 U	1.9 U	1.4 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	21 J Z	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	15	140 J C	8.3 J C	--	1.9 U	1.9 U	3.8
Fluoranthene (8270C)	ug/kg	--	--	--	41 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	29	200	12	--	1.9 U	1.9 U	5.4
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	4.3 J Z	58	4.2	0.99 J Z	1.9 U	1.9 U	1.7 J Z
Acenaphthylene	ug/kg	9.7 U	1.0 J Z	1.8 U	0.66 J Z	1.9 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-130-SA8N-SS-0.0-0.5	SL-131-SA8N-SS-0.0-0.5	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/12/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011
SDG		DE127	DE125	DE130	DE127	DE174	DE175	DE127
Start Depth		0	0	0	0	4	7	0
End Depth		0.5	0.5	0.5	0.5	5	8	0.5
Chrysene (8270C)	ug/kg	--	--	--	26 J Z	--	--	--
Chrysene (8270C SIM)	ug/kg	15	120	6.7	--	1.9 U	1.9 U	5.6
bis(2-Chloroisopropyl) ether	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	4.2 J Z	69	4.4	1.3 J Z	1.9 U	1.9 U	1.9
2,4-Dinitrophenol	ug/kg	1200 U	5700 U	1100 U	1200 U	1200 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.7 U	7.2	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	20 J Z	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.7 U	88	4.5	--	1.9 U	1.9 U	1.6 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
Benzoic Acid	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
Hexachloroethane	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
Isophorone	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.7 U	6.6	1.8 U	1.2 J Z	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	21 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	22 J Z	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	21 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	21 J Z	--	--	--
Phenanthrene (8270C SIM)	ug/kg	13	110	4.4	--	1.9 U	1.9 U	2.1
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	--	25 J Z	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	18 J Z	20 U	--	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Fluorene	ug/kg	9.7 U	6.3	1.8 U	0.95 J Z	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	960 U	180 U	21 J Z	190 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene	ug/kg	9.7 U	1.1 J Z	1.8 U	2.4	1.9 U	1.9 U	1.9 U
Naphthalene	ug/kg	5.0 J Z	3.6	1.1 J Z	4.2	1.9 U	0.82 J Z	1.1 J Z
2-Methylnaphthalene	ug/kg	9.7 U	1.8 J Z	1.8 U	3.3	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	1900 U	360 U	390 U	390 U	380 U	380 U
Benzidine	ug/kg	3900 U	19000 U	3600 UJ C	3900 R Q	3900 U	3800 U	3800 U
2-Methylphenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-130-SA8N-SS-0.0-0.5	SL-131-SA8N-SS-0.0-0.5	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5
Sample Date		04/14/2011	04/12/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011
SDG		DE127	DE125	DE130	DE127	DE174	DE175	DE127
Start Depth		0	0	0	0	4	7	0
End Depth		0.5	0.5	0.5	0.5	5	8	0.5
3-Nitroaniline	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	2900 U	550 U	580 U	580 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	960 U	180 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SS-0.0-0.5	SL-136-SA8N-SB-4.0-5.0	SL-136-SA8N-SB-9.0-10.0	SL-137-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	05/09/2011	04/20/2011	05/11/2011	05/11/2011	04/20/2011
SDG		DE131	DE146	DE132	DE148	DE148	DE132
Start Depth		0	2	0	4	9	0
End Depth		0.5	3	0.5	5	10	0.5
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	36.5 U B	55.7	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	8.6 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Nitrobenzene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Hexachlorobutadiene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	200 U	180 UJ L	170 UJ L	860 U
4-Nitroaniline	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
4-Nitrophenol	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
4-Bromophenyl Phenyl Ether	ug/kg	180 UJ L	180 U	200 U	180 UJ L	170 UJ L	860 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
4-Methylphenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
4-Chloroaniline	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Phenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	20 J Z	--	33 J Z	19 J Z	--	140 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	6.7 J Z	--	--	8.4 J Z	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	860 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	19 U	19 U	--
Hexachlorobenzene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	190 J Z
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
2,4-Dichlorophenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Pyrene (8270C)	ug/kg	--	--	21 J Z	--	--	2600
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	1.7 U	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	860 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	19 U	19 U	--
Dibenzofuran	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	980
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	790 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	1500
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.2 J Z	2.0 U	1.8 U	1.7 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	2200
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	910
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Acenaphthylene	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	8.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SS-0.0-0.5	SL-136-SA8N-SB-4.0-5.0	SL-136-SA8N-SB-9.0-10.0	SL-137-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	05/09/2011	04/20/2011	05/11/2011	05/11/2011	04/20/2011
SDG		DE131	DE146	DE132	DE148	DE148	DE132
Start Depth		0	2	0	4	9	0
End Depth		0.5	3	0.5	5	10	0.5
Chrysene (8270C)	ug/kg	--	--	21 J Z	--	--	1700
Chrysene (8270C SIM)	ug/kg	1.8 U	1.9	--	1.8 U	1.7 U	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	1200
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1100 U	1000 U	5200 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	280 J Z
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	1200
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Aniline	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
Benzoic Acid	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
Hexachloroethane	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Hexachlorocyclopentadiene	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
Isophorone	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	120 J Z
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	860 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	19 U	19 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	110 J Z	--	--	860 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	13 J Z	19 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	1200
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	860 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	19 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Fluorene	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	8.6 U
Carbazole	ug/kg	180 U	180 U	200 U	180 U	170 U	110 J Z
Pentachlorophenol	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
2-Nitroaniline	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
2-Nitrophenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	8.6 U
Naphthalene	ug/kg	1.8 U	1.2 J Z	2.0 U	1.8 U	1.7 U	8.6 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	2.0 U	1.8 U	1.7 U	8.6 U
2-Chloronaphthalene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	390 U	350 U	350 U	1700 U
Benzidine	ug/kg	3600 U	3700 U	3900 U	3500 U	3500 U	17000 U
2-Methylphenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
2-Chlorophenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-135-SA8N-SS-0.0-0.5	SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SS-0.0-0.5	SL-136-SA8N-SB-4.0-5.0	SL-136-SA8N-SB-9.0-10.0	SL-137-SA8N-SS-0.0-0.5
Sample Date		04/19/2011	05/09/2011	04/20/2011	05/11/2011	05/11/2011	04/20/2011
SDG		DE131	DE146	DE132	DE148	DE148	DE132
Start Depth		0	2	0	4	9	0
End Depth		0.5	3	0.5	5	10	0.5
3-Nitroaniline	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U
Benzyl Alcohol	ug/kg	540 U	550 U	590 U	530 U	520 U	2600 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	200 U	180 U	170 U	860 U

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J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-137-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-9.0-10.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		05/10/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE147	DE147	DE131	DE131	DE131	DE175
Start Depth		4	9	0	0	0	3
End Depth		5	10	0.5	0.5	0.5	4
Chemical Name	Unit						
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	34.9 U B	36.3 UJ B, Q	38.1 U	24.7 J Z
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 UJ L	190 UJ L	170 U	180 U	190 U	190 UJ L
4-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 UJ L	190 UJ L	170 UJ L	180 UJ L	190 UJ L	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Phenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	19 J Z	23 J Z	27 J Z	24 J Z	28 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	21 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.39 J Z	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2	0.84 J Z	1.7 U	1.1 J FD, Z	1.5 J Z	0.87 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	21 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.3 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	0.88 J Z	1.8 U	1.1 J Z	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.1 J Z	1.3 J Z	0.96 J Z	1.8 J FD	2.2	0.76 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.1	1.9 U	1.0 J Z	1.7 J FD, Z	1.9	1.0 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	0.86 J FD, Z	1.9 U	0.96 J Z
Acenaphthylene	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-137-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-9.0-10.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		05/10/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE147	DE147	DE131	DE131	DE131	DE175
Start Depth		4	9	0	0	0	3
End Depth		5	10	0.5	0.5	0.5	4
Chrysene (8270C)	ug/kg	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.97 J Z	0.63 J Z	0.84 J Z	1.5 J FD, Z	1.9	0.53 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.84 J Z	1.9 U	1.7 U	0.77 J FD, Z	1.0 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.97 J Z	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Aniline	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
Benzoic Acid	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
Isophorone	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	7.6 J Z	19 U	20 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 J Z	1.4 J Z	1.7 U	0.96 J FD, Z	1.1 J Z	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Fluorene	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.0 J Z
2-Methylnaphthalene	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	340 U	360 U	380 U	380 U
Benzidine	ug/kg	3600 U	3800 U	3400 U	3600 R Q	3800 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

Sample Name		SL-137-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-9.0-10.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		05/10/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE147	DE147	DE131	DE131	DE131	DE175
Start Depth		4	9	0	0	0	3
End Depth		5	10	0.5	0.5	0.5	4
3-Nitroaniline	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	560 U	520 U	540 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/09/2011
SDG		DE129	DE146
Start Depth		0	4
End Depth		0.5	5
Chemical Name	Unit		
N-Nitrosodimethylamine (1625C)	ng/kg	37.2 J Z	401 UJ FD
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U
Nitrobenzene	ug/kg	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U
4-Nitroaniline	ug/kg	190 U	200 U
4-Nitrophenol	ug/kg	570 U	600 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	200 U
4-Methylphenol	ug/kg	190 U	200 U
4-Chloroaniline	ug/kg	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	200 U
Phenol	ug/kg	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	200 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	--
Hexachlorobenzene	ug/kg	190 U	200 U
Anthracene (8270C)	ug/kg	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U
Pyrene (8270C)	ug/kg	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U
Dibenzofuran	ug/kg	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U
Fluoranthene (8270C)	ug/kg	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.0 U
Acenaphthylene	ug/kg	1.9 U	2.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Semivolatiles - Validated Data
HSA-8N

		Sample Name	SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
		Sample Date	04/15/2011	05/09/2011
		SDG	DE129	DE146
		Start Depth	0	4
		End Depth	0.5	5
Chrysene (8270C)	ug/kg		--	--
Chrysene (8270C SIM)	ug/kg		0.45 J Z	2.0 U
bis(2-Chloroisopropyl) ether	ug/kg		190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg		--	--
Benzo(a)pyrene (8270C SIM)	ug/kg		1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg		1100 U	1200 UJ Q
4,6-Dinitro-2-Methylphenol	ug/kg		570 U	600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg		--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg		1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg		--	--
Benzo(a)anthracene (8270C SIM)	ug/kg		1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg		190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg		190 U	200 U
Aniline	ug/kg		570 U	600 U
Benzoic Acid	ug/kg		570 U	600 U
Hexachloroethane	ug/kg		190 U	200 U
4-Chlorophenyl Phenylether	ug/kg		190 U	200 U
Hexachlorocyclopentadiene	ug/kg		570 U	600 U
Isophorone	ug/kg		190 U	200 U
Acenaphthene (8270C)	ug/kg		--	--
Acenaphthene (8270C SIM)	ug/kg		1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg		--	--
Diethylphthalate (8270C SIM)	ug/kg		20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg		--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg		20 U	21 U
Phenanthrene (8270C)	ug/kg		--	--
Phenanthrene (8270C SIM)	ug/kg		1.9 U	2.0 U
Butylbenzylphthalate (8270C)	ug/kg		--	--
Butylbenzylphthalate (8270C SIM)	ug/kg		20 U	21 U
N-Nitrosodiphenylamine	ug/kg		190 U	200 U
Fluorene	ug/kg		1.9 U	2.0 U
Carbazole	ug/kg		190 U	200 U
Pentachlorophenol	ug/kg		570 U	600 U
2,4,6-Trichlorophenol	ug/kg		190 U	200 U
2-Nitroaniline	ug/kg		190 U	200 U
2-Nitrophenol	ug/kg		190 U	200 U
1-Methylnaphthalene	ug/kg		1.9 U	2.0 UJ Q
Naphthalene	ug/kg		1.9 U	2.0 UJ FD
2-Methylnaphthalene	ug/kg		1.9 U	2.0 UJ Q
2-Chloronaphthalene	ug/kg		190 U	200 U
3,3`-Dichlorobenzidine	ug/kg		380 U	400 U
Benzidine	ug/kg		3800 U	4000 U
2-Methylphenol	ug/kg		190 U	200 U
2-Chlorophenol	ug/kg		190 U	200 U
2,4,5-Trichlorophenol	ug/kg		190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/09/2011
SDG		DE129	DE146
Start Depth		0	4
End Depth		0.5	5
3-Nitroaniline	ug/kg	190 U	200 U
Benzyl Alcohol	ug/kg	570 U	600 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-001-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-4.0-5.0	SL-005-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-4.0-5.0
Sample Date		05/26/2011	05/26/2011	05/27/2011	04/21/2011	04/21/2011	04/21/2011	04/22/2011
SDG		DE165	DE166	DE167	DE134	DE134	DE134	DE135
Start Depth		4	4	4	4	4	4	4
End Depth		5	5	5	5	5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,3-Dichlorobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Hexachlorobutadiene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2-Dichlorobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Isopropyltoluene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Ethylbenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Styrene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
N-Propylbenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
N-Butylbenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
4-Chlorotoluene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2-Dibromoethane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2-Dichloroethane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
4-Methyl-2-Pentanone	ug/kg	8.8 U	9.9 U	8.9 U	8.0 U	8.2 U	9.0 U	7.2 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Bromobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Toluene	ug/kg	4.4 U	0.11 J FD, Z	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Chlorobenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	5.0 U	4.4 U	4.0 UJ C	4.1 UJ C	4.5 UJ C	3.6 U
1,4-Dioxane	ug/kg	17 U	17 U	17 U	15 U	14 U	16 U	14 U
Dibromochloromethane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Tetrachloroethene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
sec-Butylbenzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,3-Dichloropropane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
m,p-Xylene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Carbon tetrachloride	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,1-Dichloropropene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
2-Hexanone	ug/kg	8.8 U	9.9 U	8.9 U	8.0 U	8.2 U	9.0 U	7.2 U
2,2-Dichloropropane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Acetone	ug/kg	8.8 U B	9.9 U B	8.9 U B	8.0 U	8.2 U	9.0 U	7.2 U
Chloroform	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Benzene	ug/kg	4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-001-SA8N-SB-4.0-5.0	SL-002-SA8N-SB-4.0-5.0	SL-003-SA8N-SB-4.0-5.0	SL-004-SA8N-SB-4.0-5.0	SL-005-SA8N-SB-4.0-5.0	SL-006-SA8N-SB-4.0-5.0	SL-007-SA8N-SB-4.0-5.0
		Sample Date	05/26/2011	05/26/2011	05/27/2011	04/21/2011	04/21/2011	04/21/2011	04/22/2011
		SDG	DE165	DE166	DE167	DE134	DE134	DE134	DE135
		Start Depth	4	4	4	4	4	4	4
		End Depth	5	5	5	5	5	5	5
1,1,1-Trichloroethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Bromomethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Chloromethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Dibromomethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Bromochloromethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 UJ C	4.1 UJ C	4.5 UJ C	3.6 U
Chloroethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Vinyl Chloride	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Methylene chloride	ug/kg		4.4 U B	5.0 U B	4.4 U B	4.0 U B	4.1 U B	4.5 U B	3.6 U B
Bromoform	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Bromodichloromethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,1-Dichloroethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,1-Dichloroethene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Trichlorofluoromethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Dichlorodifluoromethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Freon 113a	ug/kg		5.5 U	6.2 U	5.5 U	5.0 U	5.1 U	5.6 U	4.5 U
Freon 113	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2-Dichloropropane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
2-Butanone	ug/kg		8.8 U	9.9 U	8.9 U	8.0 U	8.2 U	9.0 U	7.2 U
1,1,2-Trichloroethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Trichloroethene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,1,2,2-Tetrachloroethane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Chlorotrifluoroethene	ug/kg		5.5 U	6.2 U	5.5 U	5.0 U	5.1 U	5.6 U	4.5 U
1,2,3-Trichlorobenzene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
o-Xylene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
2-Chlorotoluene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2,4-Trimethylbenzene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2-Dibromo-3-chloropropane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
1,2,3-Trichloropropane	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
tert-Butylbenzene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U
Isopropylbenzene	ug/kg		4.4 U	5.0 U	4.4 U	4.0 U	4.1 U	4.5 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-008-SA8N-SB-4.0-5.0	SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0	SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0
Sample Date		05/26/2011	04/11/2011	04/22/2011	04/22/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE166	DE124	DE135	DE135	DE124	DE135	DE135
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	1.0 U	1 U	--	1.0 U	1 U
EFH (C12-C14)	mg/kg	--	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	--	4.1	1.4 U	1.4 U	3.9	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	--	11	1.4 U	1.4 U	24	1.4 U	1.4 U
EFH (C30-C40)	mg/kg	--	26	0.86 J Z	1.8	73	0.86 J Z	0.53 J Z
EFH (C8-C11)	mg/kg	--	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,3-Dichlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Hexachlorobutadiene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Isopropyltoluene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Ethylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Styrene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
trans-1,3-Dichloropropene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
N-Propylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
N-Butylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
4-Chlorotoluene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2-Dibromoethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2-Dichloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	9.2 U	--	8.2 U	7.9 U	--	8.1 U	8.4 U
1,3,5-Trimethylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Bromobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Toluene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Chlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,4-Dioxane	ug/kg	17 U	--	15 U	15 U	--	15 U	16 U
Dibromochloromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Tetrachloroethene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
sec-Butylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,3-Dichloropropane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
m,p-Xylene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Carbon tetrachloride	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,1-Dichloropropene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
2-Hexanone	ug/kg	9.2 U	--	8.2 U	7.9 U	--	8.1 U	8.4 U
2,2-Dichloropropane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Acetone	ug/kg	9.2 U B	--	8.2 U	7.9 U	--	8.1 U	8.4 U
Chloroform	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Benzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA8N-SB-4.0-5.0	SL-010-SA8N-SS-0.0-0.5	SL-010-SA8N-SB-4.0-5.0	SL-010-SA8N-SB-9.0-10.0	SL-011-SA8N-SS-0.0-0.5	SL-011-SA8N-SB-4.0-5.0	SL-011-SA8N-SB-9.0-10.0
Sample Date		05/26/2011	04/11/2011	04/22/2011	04/22/2011	04/11/2011	04/22/2011	04/22/2011
SDG		DE166	DE124	DE135	DE135	DE124	DE135	DE135
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
1,1,1-Trichloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Bromomethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Chloromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Dibromomethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Bromochloromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Chloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Vinyl Chloride	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Methylene chloride	ug/kg	4.6 U B	--	4.1 U B	3.9 U B	--	4.1 U B	4.2 U B
Bromoform	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Bromodichloromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,1-Dichloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,1-Dichloroethene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Trichlorofluoromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Dichlorodifluoromethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Freon 113a	ug/kg	5.7 U	--	5.1 U	4.9 U	--	5.1 U	5.2 U
Freon 113	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2-Dichloropropane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
2-Butanone	ug/kg	9.2 U	--	8.2 U	7.9 U	--	8.1 U	8.4 U
1,1,2-Trichloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Trichloroethene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Chlorotrifluoroethene	ug/kg	5.7 U	--	5.1 U	4.9 U	--	5.1 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
o-Xylene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
2-Chlorotoluene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
1,2,3-Trichloropropane	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
tert-Butylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U
Isopropylbenzene	ug/kg	4.6 U	--	4.1 U	3.9 U	--	4.1 U	4.2 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SB-2.0-3.0	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SB-4.0-5.0
Sample Date		04/12/2011	05/02/2011	04/29/2011	04/29/2011	05/03/2011	05/03/2011	04/29/2011
SDG		DE125	DE141	DE140	DE140	DE142	DE142	DE140
Start Depth		0	4	2	4	4	3	4
End Depth		0.5	5	3	5	5	4	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	0.9 U	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.3 U	1.4 U	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.8	1.4 U	--	--	--	--	--
EFH (C21-C30)	mg/kg	10	1.4 U	--	--	--	--	--
EFH (C30-C40)	mg/kg	33	0.65 J Z	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2,4-Trichlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,3-Dichlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Hexachlorobutadiene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2-Dichlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Isopropyltoluene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Ethylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Styrene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
cis-1,3-Dichloropropene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
trans-1,3-Dichloropropene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
N-Propylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
N-Butylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
4-Chlorotoluene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2-Dibromoethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2-Dichloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
4-Methyl-2-Pentanone	ug/kg	--	7.8 U	7.6 U	7.4 U	8.0 U	7.8 U	7.4 U
1,3,5-Trimethylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Bromobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Toluene	ug/kg	--	3.9 U	3.8 U B	3.7 U B	4.0 U	3.9 U	3.7 U B
Chlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
2-Chloroethyl Vinyl Ether	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,4-Dioxane	ug/kg	--	14 U	15 U	15 U	14 U	18 U	14 U
Dibromochloromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Tetrachloroethene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
sec-Butylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,3-Dichloropropane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
cis-1,2-Dichloroethene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
trans-1,2-Dichloroethene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Methyl tert-Butyl Ether	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
m,p-Xylene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Carbon tetrachloride	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,1-Dichloropropene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
2-Hexanone	ug/kg	--	7.8 U	7.6 U	7.4 U	8.0 U	7.8 U	7.4 U
2,2-Dichloropropane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,1,1,2-Tetrachloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Acetone	ug/kg	--	8.5	7.6 U B	7.4 U	8.0 U	7.2 J Z	7.4 U
Chloroform	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Benzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-012-SA8N-SS-0.0-0.5	SL-012-SA8N-SB-4.0-5.0	SL-013-SA8N-SB-2.0-3.0	SL-014-SA8N-SB-4.0-5.0	SL-015-SA8N-SB-4.0-5.0	SL-016-SA8N-SB-3.0-4.0	SL-017-SA8N-SB-4.0-5.0
Sample Date		04/12/2011	05/02/2011	04/29/2011	04/29/2011	05/03/2011	05/03/2011	04/29/2011
SDG		DE125	DE141	DE140	DE140	DE142	DE142	DE140
Start Depth		0	4	2	4	4	3	4
End Depth		0.5	5	3	5	5	4	5
1,1,1-Trichloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Bromomethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Chloromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Dibromomethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Bromochloromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Chloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Vinyl Chloride	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Methylene chloride	ug/kg	--	12	9.2	9.9	7.4	6.8	18
Bromoform	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Bromodichloromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,1-Dichloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,1-Dichloroethene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Trichlorofluoromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Dichlorodifluoromethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Freon 113a	ug/kg	--	4.9 U	4.8 U	4.6 U	5.0 U	4.9 U	4.6 U
Freon 113	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2-Dichloropropane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
2-Butanone	ug/kg	--	7.8 U	7.6 U	7.4 U	8.0 U	7.8 U	7.4 U
1,1,2-Trichloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Trichloroethene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,1,2,2-Tetrachloroethane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Chlorotrifluoroethene	ug/kg	--	4.9 U	4.8 U	4.6 U	5.0 U	4.9 U	4.6 U
1,2,3-Trichlorobenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
o-Xylene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
2-Chlorotoluene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2,4-Trimethylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2-Dibromo-3-chloropropane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
1,2,3-Trichloropropane	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
tert-Butylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U
Isopropylbenzene	ug/kg	--	3.9 U	3.8 U	3.7 U	4.0 U	3.9 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0	SL-021-SA8N-SS-0.0-0.5
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011	04/12/2011
SDG		DE142	DE125	DE142	DE125	DE142	DE142	DE125
Start Depth		4	0	4	0	4	9	0
End Depth		5	0.5	5	0.5	5	10	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	1.1 U	--	1 U	1.1 U	--
EFH (C12-C14)	mg/kg	--	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U
EFH (C15-C20)	mg/kg	--	1.6	1.4 U	1.3 J Z	1.4 U	1.5 U	1.8
EFH (C21-C30)	mg/kg	--	12	1.4 U	15	0.47 J Z	1.5 U	16
EFH (C30-C40)	mg/kg	--	32	0.51 J Z	37	0.61 J Z	0.67 J Z	45
EFH (C8-C11)	mg/kg	--	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2,4-Trichlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,3-Dichlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Hexachlorobutadiene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2-Dichlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Isopropyltoluene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Ethylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Styrene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
cis-1,3-Dichloropropene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
trans-1,3-Dichloropropene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
N-Propylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
N-Butylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
4-Chlorotoluene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2-Dibromoethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2-Dichloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
4-Methyl-2-Pentanone	ug/kg	8.4 U	--	8.9 U	--	8.5 U	9.3 U	--
1,3,5-Trimethylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Bromobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Toluene	ug/kg	4.2 UJ FD	--	4.4 U	--	4.2 U	4.6 U B	--
Chlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,4-Dioxane	ug/kg	14 U	--	16 U	--	15 U	16 U	--
Dibromochloromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Tetrachloroethene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
sec-Butylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,3-Dichloropropane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
cis-1,2-Dichloroethene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
trans-1,2-Dichloroethene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Methyl tert-Butyl Ether	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
m,p-Xylene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Carbon tetrachloride	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,1-Dichloropropene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
2-Hexanone	ug/kg	8.4 U	--	8.9 U	--	8.5 U	9.3 U	--
2,2-Dichloropropane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Acetone	ug/kg	8.4 U	--	8.3 J Z	--	8.5 U	9.3 U	--
Chloroform	ug/kg	4.2 U	--	0.15 J Z	--	4.2 U	4.6 U	--
Benzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA8N-SB-4.0-5.0	SL-019-SA8N-SS-0.0-0.5	SL-019-SA8N-SB-4.0-5.0	SL-020-SA8N-SS-0.0-0.5	SL-020-SA8N-SB-4.0-5.0	SL-020-SA8N-SB-9.0-10.0	SL-021-SA8N-SS-0.0-0.5
Sample Date		05/03/2011	04/12/2011	05/03/2011	04/12/2011	05/03/2011	05/03/2011	04/12/2011
SDG		DE142	DE125	DE142	DE125	DE142	DE142	DE125
Start Depth		4	0	4	0	4	9	0
End Depth		5	0.5	5	0.5	5	10	0.5
1,1,1-Trichloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Bromomethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Chloromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Dibromomethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Bromochloromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Chloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Vinyl Chloride	ug/kg	4.2 U	--	4.4 U	--	4.2 U	0.27 J Z	--
Methylene chloride	ug/kg	12	--	40	--	11	14	--
Bromoform	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Bromodichloromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,1-Dichloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,1-Dichloroethene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Trichlorofluoromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Dichlorodifluoromethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Freon 113a	ug/kg	5.2 U	--	5.5 U	--	5.3 U	5.8 U	--
Freon 113	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2-Dichloropropane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
2-Butanone	ug/kg	8.4 U	--	8.9 U	--	8.5 U	9.3 U	--
1,1,2-Trichloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Trichloroethene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Chlorotrifluoroethene	ug/kg	5.2 U	--	5.5 U	--	5.3 U	5.8 U	--
1,2,3-Trichlorobenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
o-Xylene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
2-Chlorotoluene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2,4-Trimethylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
1,2,3-Trichloropropane	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
tert-Butylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--
Isopropylbenzene	ug/kg	4.2 U	--	4.4 U	--	4.2 U	4.6 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0	SL-023-SA8N-SB-4.0-5.0	SL-027-SA8N-SS-0.0-0.5
Sample Date		05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011	05/02/2011	04/13/2011
SDG		DE143	DE143	DE125	DE141	DE141	DE141	DE126
Start Depth		4	9	0	4	9	4	0
End Depth		5	10	0.5	5	10	5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.0 U	1 U	--	1 U	1.0 U	--	--
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	--	7.0 U
EFH (C15-C20)	mg/kg	0.58 J Z	0.49 J Z	1.3 J Z	1.4 U	1.4 U	--	3.6 J Z
EFH (C21-C30)	mg/kg	1.4 J L	1.8 J L	19	0.74 J Z	0.75 J Z	--	31
EFH (C30-C40)	mg/kg	3	3.5	50	1.4	1.3 J Z	--	170
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	--	7.0 U
1,4-Dichlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2,4-Trichlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,3-Dichlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Hexachlorobutadiene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2-Dichlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Isopropyltoluene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Ethylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Styrene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
cis-1,3-Dichloropropene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
trans-1,3-Dichloropropene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
N-Propylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
N-Butylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
4-Chlorotoluene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2-Dibromoethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2-Dichloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
4-Methyl-2-Pentanone	ug/kg	8.4 U	8.5 U	--	8.0 U	9.0 U	8.5 U	--
1,3,5-Trimethylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Bromobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Toluene	ug/kg	4.2 U	4.3 U	--	4.0 U B	4.5 U	4.3 U	--
Chlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,4-Dioxane	ug/kg	15 U	15 U	--	14 U	15 U	14 U	--
Dibromochloromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Tetrachloroethene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
sec-Butylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,3-Dichloropropane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
cis-1,2-Dichloroethene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
trans-1,2-Dichloroethene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Methyl tert-Butyl Ether	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
m,p-Xylene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Carbon tetrachloride	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,1-Dichloropropene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
2-Hexanone	ug/kg	8.4 U	8.5 U	--	8.0 U	9.0 U	8.5 U	--
2,2-Dichloropropane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Acetone	ug/kg	8.4 U	8.5 U	--	7.2 J Z	9.0 U	8.5 U	--
Chloroform	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Benzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8N-SB-4.0-5.0	SL-021-SA8N-SB-9.0-10.0	SL-022-SA8N-SS-0.0-0.5	SL-022-SA8N-SB-4.0-5.0	SL-022-SA8N-SB-9.0-10.0	SL-023-SA8N-SB-4.0-5.0	SL-027-SA8N-SS-0.0-0.5
Sample Date		05/04/2011	05/04/2011	04/12/2011	05/02/2011	05/02/2011	05/02/2011	04/13/2011
SDG		DE143	DE143	DE125	DE141	DE141	DE141	DE126
Start Depth		4	9	0	4	9	4	0
End Depth		5	10	0.5	5	10	5	0.5
1,1,1-Trichloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Bromomethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Chloromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Dibromomethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Bromochloromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Chloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Vinyl Chloride	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Methylene chloride	ug/kg	7.7	5.1	--	18	6.9	9	--
Bromoform	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Bromodichloromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,1-Dichloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,1-Dichloroethene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Trichlorofluoromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Dichlorodifluoromethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Freon 113a	ug/kg	5.2 U	5.3 U	--	5.0 U	5.6 U	5.3 U	--
Freon 113	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2-Dichloropropane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
2-Butanone	ug/kg	8.4 U	8.5 U	--	8.0 U	9.0 U	8.5 U	--
1,1,2-Trichloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Trichloroethene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Chlorotrifluoroethene	ug/kg	5.2 U	5.3 U	--	5.0 U	5.6 U	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
o-Xylene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
2-Chlorotoluene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2,4-Trimethylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
1,2,3-Trichloropropane	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
tert-Butylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--
Isopropylbenzene	ug/kg	4.2 U	4.3 U	--	4.0 U	4.5 U	4.3 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0	SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0
Sample Date		04/26/2011	04/26/2011	04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011
SDG		DE137	DE137	DE126	DE137	DE137	DE126	DE138
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.1 U	0.9 U	--	1.2 U	1.1 U	--	1.1 U
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	7.1 U	1.4 U	1.3 U	6.4 U	1.4 U
EFH (C15-C20)	mg/kg	1.4 U	1.4 U	7.1 U	1.4 U	1.3 U	6.4 U	1.4 U
EFH (C21-C30)	mg/kg	1.4 U	1.4 U	31	1.4	1.3 U	31	0.49 J Z
EFH (C30-C40)	mg/kg	1.5	1.3 J Z	100	6	2	96	2.4
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	7.1 U	1.4 U	1.3 U	6.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,3-Dichlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Hexachlorobutadiene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2-Dichlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Isopropyltoluene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Ethylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Styrene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
N-Propylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
N-Butylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
4-Chlorotoluene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2-Dibromoethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2-Dichloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
4-Methyl-2-Pentanone	ug/kg	0.88 J Z	--	--	8.9 U	--	--	8.1 U
1,3,5-Trimethylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Bromobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Toluene	ug/kg	4.0 U B	--	--	4.4 U B	--	--	4.1 U B
Chlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,4-Dioxane	ug/kg	15 U	--	--	18 U	--	--	16 U
Dibromochloromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Tetrachloroethene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
sec-Butylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,3-Dichloropropane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
m,p-Xylene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Carbon tetrachloride	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,1-Dichloropropene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
2-Hexanone	ug/kg	8.0 U	--	--	8.9 U	--	--	8.1 U
2,2-Dichloropropane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Acetone	ug/kg	8.0 U B	--	--	8.9 U B	--	--	8.1 U B
Chloroform	ug/kg	0.17 J Z	--	--	0.29 J Z	--	--	4.1 U
Benzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-027-SA8N-SB-4.0-5.0	SL-027-SA8N-SB-9.0-10.0	SL-028-SA8N-SS-0.0-0.5	SL-028-SA8N-SB-4.0-5.0	SL-028-SA8N-SB-9.0-10.0	SL-032-SA8N-SS-0.0-0.5	SL-032-SA8N-SB-4.0-5.0
Sample Date		04/26/2011	04/26/2011	04/13/2011	04/26/2011	04/26/2011	04/13/2011	04/27/2011
SDG		DE137	DE137	DE126	DE137	DE137	DE126	DE138
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
1,1,1-Trichloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Bromomethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Chloromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Dibromomethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Bromochloromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Chloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Vinyl Chloride	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Methylene chloride	ug/kg	37	--	--	44	--	--	17
Bromoform	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Bromodichloromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,1-Dichloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,1-Dichloroethene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Trichlorofluoromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Dichlorodifluoromethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Freon 113a	ug/kg	5.0 U	--	--	5.5 U	--	--	5.1 U
Freon 113	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2-Dichloropropane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
2-Butanone	ug/kg	8.0 U	--	--	8.9 U	--	--	8.1 U
1,1,2-Trichloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Trichloroethene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Chlorotrifluoroethene	ug/kg	5.0 U	--	--	5.5 U	--	--	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
o-Xylene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
2-Chlorotoluene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
1,2,3-Trichloropropane	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
tert-Butylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U
Isopropylbenzene	ug/kg	4.0 U	--	--	4.4 U	--	--	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-032-SA8N-SB-9.0-10.0	SL-036-SA8N-SS-0.0-0.5	SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0
Sample Date		04/27/2011	04/12/2011	04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011
SDG		DE138	DE125	DE136	DE136	DE127	DE140	DE140
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.1 U	--	1.4 U	1.0 U	--	1.0 U	0.2 J Z
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	1.4 U	1.5 U	26 U	1.4 U	1.5 U
EFH (C15-C20)	mg/kg	1.4 U	1.5	1.4 U	1.5 U	14 J Z	1.4 U	1.5 U
EFH (C21-C30)	mg/kg	0.55 J Z	11	1.4 U	1.5 U	240	1.7 J FD, Q	5.9
EFH (C30-C40)	mg/kg	1.7	28	0.86 J Z	0.73 J Z	750	4.0 J FD, Q	18
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	1.4 U	1.5 U	26 U	1.4 U	1.5 U
1,4-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,3-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Hexachlorobutadiene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2-Dichlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Isopropyltoluene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Ethylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Styrene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
N-Propylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
N-Butylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
4-Chlorotoluene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2-Dibromoethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2-Dichloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	8.4 U	--	--	10 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Bromobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Toluene	ug/kg	--	--	4.2 U	--	--	5.0 U B	--
Chlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,4-Dioxane	ug/kg	--	--	16 U	--	--	15 U	--
Dibromochloromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Tetrachloroethene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
sec-Butylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,3-Dichloropropane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	4.2 U	--	--	5.0 U	--
m,p-Xylene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Carbon tetrachloride	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,1-Dichloropropene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
2-Hexanone	ug/kg	--	--	8.4 U	--	--	10 U	--
2,2-Dichloropropane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Acetone	ug/kg	--	--	8.4 U	--	--	10 UJ FD	--
Chloroform	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Benzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-032-SA8N-SB-9.0-10.0	SL-036-SA8N-SS-0.0-0.5	SL-036-SA8N-SB-4.0-5.0	SL-036-SA8N-SB-9.0-10.0	SL-040-SA8N-SS-0.0-0.5	SL-040-SA8N-SB-4.0-5.0	SL-040-SA8N-SB-9.0-10.0
Sample Date		04/27/2011	04/12/2011	04/25/2011	04/25/2011	04/14/2011	04/29/2011	04/29/2011
SDG		DE138	DE125	DE136	DE136	DE127	DE140	DE140
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
1,1,1-Trichloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Bromomethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Chloromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Dibromomethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Bromochloromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Chloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Vinyl Chloride	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Methylene chloride	ug/kg	--	--	7.5	--	--	14 J Q	--
Bromoform	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Bromodichloromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,1-Dichloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,1-Dichloroethene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Trichlorofluoromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Dichlorodifluoromethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Freon 113a	ug/kg	--	--	5.2 U	--	--	6.2 U	--
Freon 113	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2-Dichloropropane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
2-Butanone	ug/kg	--	--	8.4 U	--	--	10 U	--
1,1,2-Trichloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Trichloroethene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Chlorotrifluoroethene	ug/kg	--	--	5.2 U	--	--	6.2 U	--
1,2,3-Trichlorobenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
o-Xylene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
2-Chlorotoluene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2,4-Trimethylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
1,2,3-Trichloropropane	ug/kg	--	--	4.2 U	--	--	5.0 U	--
tert-Butylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--
Isopropylbenzene	ug/kg	--	--	4.2 U	--	--	5.0 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0	SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5	SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0
Sample Date		04/28/2011	04/28/2011	04/13/2011	04/12/2011	04/11/2011	04/29/2011	04/29/2011
SDG		DE139	DE139	DE126	DE125	DE124	DE140	DE140
Start Depth		4	9	0	0	0	4	8
End Depth		5	10	0.5	0.5	0.5	5	9
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1 U	1 U	--	--	--	0.9 U	1.2 U
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	6.5 U	1.4 U	0.48 J Z	1.3 U	1.4 U
EFH (C15-C20)	mg/kg	1.4 U	1.4 U	6.5 U	3.3	6.1	1.3 U	1.4 U
EFH (C21-C30)	mg/kg	0.54 J Z	1.4 U	25	15	9.7	1.3 U	1.4 U
EFH (C30-C40)	mg/kg	2.5	1.7	96	47	19	0.52 J Z	1.4 U
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	6.5 U	1.4 U	1.3 U	1.3 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2,4-Trichlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,3-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Hexachlorobutadiene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2-Dichlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Isopropyltoluene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Ethylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Styrene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
cis-1,3-Dichloropropene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
trans-1,3-Dichloropropene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
N-Propylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
N-Butylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
4-Chlorotoluene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2-Dibromoethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2-Dichloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
4-Methyl-2-Pentanone	ug/kg	8.0 U	--	--	--	--	7.6 U	9.9 U
1,3,5-Trimethylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Bromobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Toluene	ug/kg	4.0 U B	--	--	--	--	3.8 U B	4.9 U B
Chlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,4-Dioxane	ug/kg	15 U	--	--	--	--	14 U	17 U
Dibromochloromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Tetrachloroethene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
sec-Butylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,3-Dichloropropane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
cis-1,2-Dichloroethene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
trans-1,2-Dichloroethene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Methyl tert-Butyl Ether	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
m,p-Xylene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Carbon tetrachloride	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,1-Dichloropropene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
2-Hexanone	ug/kg	8.0 U	--	--	--	--	7.6 U	9.9 U
2,2-Dichloropropane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Acetone	ug/kg	8.0 U B	--	--	--	--	7.6 U B	9.9 U B
Chloroform	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Benzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA8N-SB-4.0-5.0	SL-041-SA8N-SB-9.0-10.0	SL-046-SA8N-SS-0.0-0.5	SL-047-SA8N-SS-0.0-0.5	SL-049-SA8N-SS-0.0-0.5	SL-049-SA8N-SB-4.0-5.0	SL-049-SA8N-SB-8.0-9.0
Sample Date		04/28/2011	04/28/2011	04/13/2011	04/12/2011	04/11/2011	04/29/2011	04/29/2011
SDG		DE139	DE139	DE126	DE125	DE124	DE140	DE140
Start Depth		4	9	0	0	0	4	8
End Depth		5	10	0.5	0.5	0.5	5	9
1,1,1-Trichloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Bromomethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Chloromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Dibromomethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Bromochloromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Chloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Vinyl Chloride	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Methylene chloride	ug/kg	20	--	--	--	--	16	33
Bromoform	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Bromodichloromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,1-Dichloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,1-Dichloroethene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Trichlorofluoromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Dichlorodifluoromethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Freon 113a	ug/kg	5.0 U	--	--	--	--	4.7 U	6.2 U
Freon 113	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2-Dichloropropane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
2-Butanone	ug/kg	8.0 U	--	--	--	--	7.6 U	9.9 U
1,1,2-Trichloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Trichloroethene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Chlorotrifluoroethene	ug/kg	5.0 U	--	--	--	--	4.7 U	6.2 U
1,2,3-Trichlorobenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
o-Xylene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
2-Chlorotoluene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2,4-Trimethylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
1,2,3-Trichloropropane	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
tert-Butylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U
Isopropylbenzene	ug/kg	4.0 U	--	--	--	--	3.8 U	4.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-050-SA8N-SB-4.0-5.0	SL-051-SA8N-SB-7.5-8.5	SL-054-SA8N-SB-7.0	SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5
Sample Date		05/02/2011	06/17/2011	06/17/2011	04/18/2011	05/05/2011	05/05/2011	04/18/2011
SDG		DE141	DE183	DE183	DE130	DE144	DE144	DE130
Start Depth		4	7.5	7	0	4	7	0
End Depth		5	8.5	7	0.5	5	8	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	--	1.0 U	1 U	--
EFH (C12-C14)	mg/kg	--	--	--	1.4 U	1.4 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	--	--	--	2.6	0.79 J Z	1.3 U	5
EFH (C21-C30)	mg/kg	--	--	--	11	7	1.3 U	9.7
EFH (C30-C40)	mg/kg	--	--	--	32	16	0.82 J Z	25
EFH (C8-C11)	mg/kg	--	--	--	1.4 U	1.4 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,3-Dichlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Hexachlorobutadiene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2-Dichlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Isopropyltoluene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Ethylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Styrene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
N-Propylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
N-Butylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
4-Chlorotoluene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2-Dibromoethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2-Dichloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
4-Methyl-2-Pentanone	ug/kg	8.2 U	8.9 U	8.9 U	--	7.8 U	8.5 U	--
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Bromobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Toluene	ug/kg	4.1 U	0.17 J Z	0.14 J Z	--	3.9 U	4.2 U B	--
Chlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,4-Dioxane	ug/kg	15 U	15 U	16 U	--	17 U	16 U	--
Dibromochloromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Tetrachloroethene	ug/kg	4.1 U	0.52 J Z	4.4 U	--	3.9 U	4.2 U	--
sec-Butylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,3-Dichloropropane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
m,p-Xylene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Carbon tetrachloride	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,1-Dichloropropene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
2-Hexanone	ug/kg	8.2 U	8.9 U	8.9 U	--	7.8 U	8.5 U	--
2,2-Dichloropropane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Acetone	ug/kg	8.2 U	8.9 U	8.9 U	--	13	9	--
Chloroform	ug/kg	4.1 U	1.9 J Z	4.4 U	--	3.9 U	4.2 U	--
Benzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-050-SA8N-SB-4.0-5.0	SL-051-SA8N-SB-7.5-8.5	SL-054-SA8N-SB-7.0	SL-056-SA8N-SS-0.0-0.5	SL-056-SA8N-SB-4.0-5.0	SL-056-SA8N-SB-7.0-8.0	SL-057-SA8N-SS-0.0-0.5
Sample Date		05/02/2011	06/17/2011	06/17/2011	04/18/2011	05/05/2011	05/05/2011	04/18/2011
SDG		DE141	DE183	DE183	DE130	DE144	DE144	DE130
Start Depth		4	7.5	7	0	4	7	0
End Depth		5	8.5	7	0.5	5	8	0.5
1,1,1-Trichloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Bromomethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Chloromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Dibromomethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Bromochloromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Chloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Vinyl Chloride	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Methylene chloride	ug/kg	15	4.5 U B	4.4 U B	--	9.6	13	--
Bromoform	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Bromodichloromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,1-Dichloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,1-Dichloroethene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Trichlorofluoromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Dichlorodifluoromethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Freon 113a	ug/kg	5.1 U	5.6 U	5.6 U	--	4.9 U	5.3 U	--
Freon 113	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2-Dichloropropane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
2-Butanone	ug/kg	8.2 U	8.9 U	8.9 U	--	7.8 U	8.5 U	--
1,1,2-Trichloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Trichloroethene	ug/kg	4.1 U	10	0.97 J Z	--	3.9 U	4.2 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Chlorotrifluoroethene	ug/kg	5.1 U	5.6 U	5.6 U	--	4.9 U	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
o-Xylene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
2-Chlorotoluene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
1,2,3-Trichloropropane	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
tert-Butylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--
Isopropylbenzene	ug/kg	4.1 U	4.5 U	4.4 U	--	3.9 U	4.2 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-058-SA8N-SB-7.5	SL-059-SA8N-SB-9.0	SL-062-SA8N-SS-0.0-0.5	SL-062-SA8N-SB-4.0-5.0	SL-063-SA8N-SB-6.5
Sample Date		05/05/2011	05/05/2011	06/17/2011	06/17/2011	04/15/2011	05/05/2011	06/17/2011
SDG		DE144	DE144	DE183	DE183	DE129	DE144	DE183
Start Depth		4	7	7.5	9	0	4	6.5
End Depth		5	8	7.5	9	0.5	5	6.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.0 U	1.1 U	--	--	--	1.0 U	--
EFH (C12-C14)	mg/kg	1.4 U	1.3 U	--	--	1.4 U	1.4 U	--
EFH (C15-C20)	mg/kg	1.4 U	6.7	--	--	5.4	1.4 U	--
EFH (C21-C30)	mg/kg	1.0 J Z	3.8	--	--	9.3	1.0 J Z	--
EFH (C30-C40)	mg/kg	2.7	6.3	--	--	20	2.2	--
EFH (C8-C11)	mg/kg	1.4 U	1.3 U	--	--	1.4 U	1.4 U	--
1,4-Dichlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,3-Dichlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Hexachlorobutadiene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2-Dichlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Isopropyltoluene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Ethylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Styrene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
N-Propylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
N-Butylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
4-Chlorotoluene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2-Dibromoethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2-Dichloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
4-Methyl-2-Pentanone	ug/kg	8.1 U	8.8 U	9.2 U	8.5 U	--	8.4 U	8.9 U
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Bromobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Toluene	ug/kg	4.0 U B	4.4 U B	0.13 J Z	0.12 J Z	--	4.2 U B	0.11 J Z
Chlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,4-Dioxane	ug/kg	15 U	17 U	17 U	16 U	--	15 U	15 U
Dibromochloromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Tetrachloroethene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
sec-Butylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,3-Dichloropropane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Methyl tert-Butyl Ether	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
m,p-Xylene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Carbon tetrachloride	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,1-Dichloropropene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
2-Hexanone	ug/kg	8.1 U	8.8 U	9.2 U	8.5 U	--	8.4 U	8.9 U
2,2-Dichloropropane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Acetone	ug/kg	7.5 J Z	8.0 J Z	9.2 U	9.9	--	8.4 U	8.9 U
Chloroform	ug/kg	4.0 U	4.4 U	0.16 J Z	4.2 U	--	4.2 U	4.5 U
Benzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA8N-SB-4.0-5.0	SL-057-SA8N-SB-7.0-8.0	SL-058-SA8N-SB-7.5	SL-059-SA8N-SB-9.0	SL-062-SA8N-SS-0.0-0.5	SL-062-SA8N-SB-4.0-5.0	SL-063-SA8N-SB-6.5
Sample Date		05/05/2011	05/05/2011	06/17/2011	06/17/2011	04/15/2011	05/05/2011	06/17/2011
SDG		DE144	DE144	DE183	DE183	DE129	DE144	DE183
Start Depth		4	7	7.5	9	0	4	6.5
End Depth		5	8	7.5	9	0.5	5	6.5
1,1,1-Trichloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Bromomethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Chloromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Dibromomethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Bromochloromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Chloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Vinyl Chloride	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Methylene chloride	ug/kg	8.8	34	4.6 U B	4.2 U B	--	8.9	4.5 U B
Bromoform	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Bromodichloromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,1-Dichloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,1-Dichloroethene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Trichlorofluoromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Dichlorodifluoromethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Freon 113a	ug/kg	5.1 U	5.5 U	5.7 U	5.3 U	--	5.3 U	5.6 U
Freon 113	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2-Dichloropropane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
2-Butanone	ug/kg	8.1 U	8.8 U	9.2 U	8.5 U	--	8.4 U	8.9 U
1,1,2-Trichloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Trichloroethene	ug/kg	4.0 U	4.4 U	11	4.2 U	--	4.2 U	1.8 J Z
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Chlorotrifluoroethene	ug/kg	5.1 U	5.5 U	5.7 U	5.3 U	--	5.3 U	5.6 U
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
o-Xylene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
2-Chlorotoluene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
1,2,3-Trichloropropane	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
tert-Butylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U
Isopropylbenzene	ug/kg	4.0 U	4.4 U	4.6 U	4.2 U	--	4.2 U	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5	SL-076-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011	06/08/2011
SDG		DE129	DE143	DE130	DE175	DE131	DE131	DE176
Start Depth		0	4	0	2	0	0	4
End Depth		0.5	5	0.5	3	0.5	0.5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	1.1 U	--	1.0 U	--	--	0.9 U
EFH (C12-C14)	mg/kg	1.5 U	1.4 U	1.4 U	1.3 U	1.4 U	1.3 U	1.4 U
EFH (C15-C20)	mg/kg	3.5	1.4 U	4.2	0.51 J Z	1.4 U	1.3	1.4 UJ FD
EFH (C21-C30)	mg/kg	9.1	1.3 J L, Z	19	2.9	2.1	11	2.1 J Q
EFH (C30-C40)	mg/kg	21	3.8	48	7.2	5.6	35	4.8 J Q
EFH (C8-C11)	mg/kg	1.5 U	1.4 U	1.4 U	1.3 U	1.4 U	1.3 U	1.4 U B
1,4-Dichlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2,4-Trichlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,3-Dichlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Hexachlorobutadiene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2-Dichlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Isopropyltoluene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Ethylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Styrene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
cis-1,3-Dichloropropene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
trans-1,3-Dichloropropene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
N-Propylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
N-Butylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
4-Chlorotoluene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2-Dibromoethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2-Dichloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
4-Methyl-2-Pentanone	ug/kg	--	8.6 U	--	8.5 U	--	--	7.5 U
1,3,5-Trimethylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Bromobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Toluene	ug/kg	--	4.3 U	--	4.2 U B	--	--	3.7 U B
Chlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,4-Dioxane	ug/kg	--	16 U	--	16 U	--	--	14 U
Dibromochloromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Tetrachloroethene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
sec-Butylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,3-Dichloropropane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
cis-1,2-Dichloroethene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
trans-1,2-Dichloroethene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Methyl tert-Butyl Ether	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
m,p-Xylene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Carbon tetrachloride	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,1-Dichloropropene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
2-Hexanone	ug/kg	--	8.6 U	--	8.5 U	--	--	7.5 U
2,2-Dichloropropane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Acetone	ug/kg	--	8.6 U	--	8.5 U B	--	--	7.5 UJ FD
Chloroform	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Benzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-067-SA8N-SS-0.0-0.5	SL-067-SA8N-SB-4.0-5.0	SL-071-SA8N-SS-0.0-0.5	SL-071-SA8N-SB-2.0-3.0	SL-075-SA8N-SS-0.0-0.5	SL-076-SA8N-SS-0.0-0.5	SL-076-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/04/2011	04/18/2011	06/07/2011	04/19/2011	04/19/2011	06/08/2011
SDG		DE129	DE143	DE130	DE175	DE131	DE131	DE176
Start Depth		0	4	0	2	0	0	4
End Depth		0.5	5	0.5	3	0.5	0.5	5
1,1,1-Trichloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Bromomethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Chloromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Dibromomethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Bromochloromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Chloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Vinyl Chloride	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Methylene chloride	ug/kg	--	8.4	--	4.2 U B	--	--	3.7 UJ B, L
Bromoform	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Bromodichloromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,1-Dichloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,1-Dichloroethene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Trichlorofluoromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Dichlorodifluoromethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Freon 113a	ug/kg	--	5.4 U	--	5.3 U	--	--	4.7 U
Freon 113	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2-Dichloropropane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
2-Butanone	ug/kg	--	8.6 U	--	8.5 U	--	--	7.5 U
1,1,2-Trichloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Trichloroethene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,1,2,2-Tetrachloroethane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Chlorotrifluoroethene	ug/kg	--	5.4 U	--	5.3 U	--	--	4.7 U
1,2,3-Trichlorobenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
o-Xylene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
2-Chlorotoluene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2,4-Trimethylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
1,2,3-Trichloropropane	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
tert-Butylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U
Isopropylbenzene	ug/kg	--	4.3 U	--	4.2 U	--	--	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0	SL-079-SA8N-SB-9.0-10.0
Sample Date		06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011	06/06/2011
SDG		DE176	DE131	DE127	DE146	DE127	DE174	DE174
Start Depth		7.5	0	0	4	0	4	9
End Depth		8.5	0.5	0.5	5	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.0 U	--	--	0.9 U	--	1.1 U	1 U
EFH (C12-C14)	mg/kg	1.4 U	1.5 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	0.49 J Z	0.99 J Z	1.4 U	1.4 U	2.2 J Z	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	2.7	8.7	0.70 J Z	1.7	24	1.4 U B	1.4 U B
EFH (C30-C40)	mg/kg	6.8	34	2.4	7.2	52	1.4 U B	1.4 U B
EFH (C8-C11)	mg/kg	1.4 U B	1.5 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,3-Dichlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Hexachlorobutadiene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2-Dichlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Isopropyltoluene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Ethylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Styrene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
N-Propylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
N-Butylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
4-Chlorotoluene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2-Dibromoethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2-Dichloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	8.2 U	--	--	8.1 U	--	7.9 U	8.7 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Bromobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Toluene	ug/kg	4.1 U B	--	--	4.1 U	--	0.22 J Z	0.40 J Z
Chlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,4-Dioxane	ug/kg	15 U	--	--	15 U	--	15 U	15 U
Dibromochloromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Tetrachloroethene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
sec-Butylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,3-Dichloropropane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
m,p-Xylene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Carbon tetrachloride	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,1-Dichloropropene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
2-Hexanone	ug/kg	8.2 U	--	--	8.1 U	--	7.9 U	8.7 U
2,2-Dichloropropane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Acetone	ug/kg	8.2 U B	--	--	8.1 U	--	7.9 U B	8.7 U B
Chloroform	ug/kg	4.1 U	--	--	4.1 U	--	0.16 J Z	0.19 J Z
Benzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-076-SA8N-SB-7.5-8.5	SL-077-SA8N-SS-0.0-0.5	SL-078-SA8N-SS-0.0-0.5	SL-078-SA8N-SB-4.0-5.0	SL-079-SA8N-SS-0.0-0.5	SL-079-SA8N-SB-4.0-5.0	SL-079-SA8N-SB-9.0-10.0
Sample Date		06/08/2011	04/19/2011	04/14/2011	05/09/2011	04/14/2011	06/06/2011	06/06/2011
SDG		DE176	DE131	DE127	DE146	DE127	DE174	DE174
Start Depth		7.5	0	0	4	0	4	9
End Depth		8.5	0.5	0.5	5	0.5	5	10
1,1,1-Trichloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Bromomethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Chloromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Dibromomethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Bromochloromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Chloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Vinyl Chloride	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Methylene chloride	ug/kg	4.1 UJ B, L	--	--	17	--	4.0 U B	24
Bromoform	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Bromodichloromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,1-Dichloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,1-Dichloroethene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Trichlorofluoromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Dichlorodifluoromethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Freon 113a	ug/kg	5.1 U	--	--	5.1 U	--	5.0 U	5.4 U
Freon 113	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2-Dichloropropane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
2-Butanone	ug/kg	8.2 U	--	--	8.1 U	--	7.9 U	8.7 U
1,1,2-Trichloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Trichloroethene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Chlorotrifluoroethene	ug/kg	5.1 U	--	--	5.1 U	--	5.0 U	5.4 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
o-Xylene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
2-Chlorotoluene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
1,2,3-Trichloropropane	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
tert-Butylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U
Isopropylbenzene	ug/kg	4.1 U	--	--	4.1 U	--	4.0 U	4.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0
Sample Date		04/18/2011	05/04/2011	04/14/2011	04/18/2011	05/06/2011	05/09/2011	05/09/2011
SDG		DE130	DE143	DE127	DE130	DE145	DE146	DE146
Start Depth		0	4	0	0	6.5	4	9
End Depth		0.5	5	0.5	0.5	7.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	1 U	--	--	--	1 U	0.9 U
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	1.3 U	1.4 U	--	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	2.8	0.65 J Z	1.8	4.5	--	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	12	8.2 J L	8.5	18	--	1.4 U	1.4 U
EFH (C30-C40)	mg/kg	31	37	23	50	--	0.83 J Z	1.4 U
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	1.3 U	1.4 U	--	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2,4-Trichlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,3-Dichlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Hexachlorobutadiene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2-Dichlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Isopropyltoluene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Ethylbenzene	ug/kg	--	4.0 U	--	--	0.46 J Z	3.8 U	3.8 U
Styrene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
cis-1,3-Dichloropropene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
trans-1,3-Dichloropropene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
N-Propylbenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
N-Butylbenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
4-Chlorotoluene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2-Dibromoethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2-Dichloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
4-Methyl-2-Pentanone	ug/kg	--	7.9 U	--	--	8.6 U	7.6 U	7.6 U
1,3,5-Trimethylbenzene	ug/kg	--	4.0 U	--	--	0.36 J Z	3.8 U	3.8 U
Bromobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Toluene	ug/kg	--	4.0 U	--	--	1.5 J Z	3.8 U	3.8 U B
Chlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,4-Dioxane	ug/kg	--	15 U	--	--	15 U	14 U	14 U
Dibromochloromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Tetrachloroethene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
sec-Butylbenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,3-Dichloropropane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
cis-1,2-Dichloroethene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
trans-1,2-Dichloroethene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Methyl tert-Butyl Ether	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
m,p-Xylene	ug/kg	--	4.0 U	--	--	1.6 J Z	3.8 U	3.8 U
Carbon tetrachloride	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,1-Dichloropropene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
2-Hexanone	ug/kg	--	7.9 U	--	--	8.6 U	7.6 U	7.6 U
2,2-Dichloropropane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Acetone	ug/kg	--	8.4	--	--	8.6 U	7.6 U	7.6 U
Chloroform	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Benzene	ug/kg	--	4.0 U	--	--	0.11 J Z	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-080-SA8N-SS-0.0-0.5	SL-080-SA8N-SB-4.0-5.0	SL-082-SA8N-SS-0.0-0.5	SL-085-SA8N-SS-0.0-0.5	SL-086-SA8N-SB-6.5-7.5	SL-087-SA8N-SB-4.0-5.0	SL-087-SA8N-SB-9.0-10.0
Sample Date		04/18/2011	05/04/2011	04/14/2011	04/18/2011	05/06/2011	05/09/2011	05/09/2011
SDG		DE130	DE143	DE127	DE130	DE145	DE146	DE146
Start Depth		0	4	0	0	6.5	4	9
End Depth		0.5	5	0.5	0.5	7.5	5	10
1,1,1-Trichloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Bromomethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Chloromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Dibromomethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Bromochloromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Chloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Vinyl Chloride	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Methylene chloride	ug/kg	--	12	--	--	4.3 U B	10	23
Bromoform	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Bromodichloromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,1-Dichloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,1-Dichloroethene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Trichlorofluoromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Dichlorodifluoromethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Freon 113a	ug/kg	--	5.0 U	--	--	5.4 U	4.8 U	4.7 U
Freon 113	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2-Dichloropropane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
2-Butanone	ug/kg	--	7.9 U	--	--	8.6 U	7.6 U	7.6 U
1,1,2-Trichloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Trichloroethene	ug/kg	--	4.0 U	--	--	0.26 J Z	3.8 U	3.8 U
1,1,2,2-Tetrachloroethane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Chlorotrifluoroethene	ug/kg	--	5.0 U	--	--	5.4 U	4.8 U	4.7 U
1,2,3-Trichlorobenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
o-Xylene	ug/kg	--	4.0 U	--	--	0.49 J Z	3.8 U	3.8 U
2-Chlorotoluene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2,4-Trimethylbenzene	ug/kg	--	4.0 U	--	--	0.57 J Z	3.8 U	3.8 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
1,2,3-Trichloropropane	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
tert-Butylbenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U
Isopropylbenzene	ug/kg	--	4.0 U	--	--	4.3 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-4.0-5.0
Sample Date		05/09/2011	04/14/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011	05/13/2011
SDG		DE146	DE127	DE131	DE131	DE150	DE150	DE150
Start Depth		3	0	0	0	4	4	4
End Depth		4	0.5	0.5	0.5	5	5	5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1 U	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	2.7 U	2.7 U	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	2.9	3.7	3	--	--	--
EFH (C21-C30)	mg/kg	1.4 U	8.2	13	18	--	--	--
EFH (C30-C40)	mg/kg	0.60 J Z	23	39	48	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	2.7 U	2.7 U	--	--	--
1,4-Dichlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,3-Dichlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Hexachlorobutadiene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2-Dichlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Isopropyltoluene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Ethylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Styrene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
N-Propylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
N-Butylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
4-Chlorotoluene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2-Dibromoethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2-Dichloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	8.1 U	--	--	--	8.9 U	9.6 U	8.7 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Bromobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Toluene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Chlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,4-Dioxane	ug/kg	14 U	--	--	--	16 U	17 U	15 U
Dibromochloromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Tetrachloroethene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
sec-Butylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,3-Dichloropropane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
m,p-Xylene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Carbon tetrachloride	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,1-Dichloropropene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
2-Hexanone	ug/kg	8.1 U	--	--	--	8.9 U	9.6 U	8.7 U
2,2-Dichloropropane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Acetone	ug/kg	8.1 U	--	--	--	8.9 U	9.6 U	8.7 U
Chloroform	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Benzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA8N-SB-3.0-4.0	SL-089-SA8N-SS-0.0-0.5	SL-092-SA8N-SS-0.0-0.5	SL-093-SA8N-SS-0.0-0.5	SL-094-SA8N-SB-4.0-5.0	SL-095-SA8N-SB-4.0-5.0	SL-096-SA8N-SB-4.0-5.0
Sample Date		05/09/2011	04/14/2011	04/19/2011	04/19/2011	05/13/2011	05/13/2011	05/13/2011
SDG		DE146	DE127	DE131	DE131	DE150	DE150	DE150
Start Depth		3	0	0	0	4	4	4
End Depth		4	0.5	0.5	0.5	5	5	5
1,1,1-Trichloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Bromomethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Chloromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Dibromomethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Bromochloromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Chloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Vinyl Chloride	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Methylene chloride	ug/kg	28	--	--	--	21	5.9	4.3 U B
Bromoform	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Bromodichloromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,1-Dichloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,1-Dichloroethene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Trichlorofluoromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Dichlorodifluoromethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Freon 113a	ug/kg	5.1 U	--	--	--	5.6 U	6.0 U	5.4 U
Freon 113	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2-Dichloropropane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
2-Butanone	ug/kg	8.1 U	--	--	--	8.9 U	9.6 U	8.7 U
1,1,2-Trichloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Trichloroethene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Chlorotrifluoroethene	ug/kg	5.1 U	--	--	--	5.6 U	6.0 U	5.4 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
o-Xylene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
2-Chlorotoluene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
1,2,3-Trichloropropane	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
tert-Butylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U
Isopropylbenzene	ug/kg	4.1 U	--	--	--	4.5 U	4.8 U	4.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-097-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-4.0-5.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0	SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5
Sample Date		05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011	05/12/2011	04/20/2011
SDG		DE149	DE149	DE149	DE132	DE149	DE149	DE132
Start Depth		4	4	4	0	4	7	0
End Depth		5	5	5	0.5	5	8	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	1 U	--	1 U	1.1 U	--
EFH (C12-C14)	mg/kg	--	--	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U
EFH (C15-C20)	mg/kg	--	--	1.4 U	1.1 J Z	1.4 U	1.4 U	2.4 J Z
EFH (C21-C30)	mg/kg	--	--	1.4 U	8.5	1.4 U	1.4 U	43
EFH (C30-C40)	mg/kg	--	--	0.97 J Z	20	0.94 J Z	0.99 J Z	110
EFH (C8-C11)	mg/kg	--	--	1.4 UJ B, L	1.4 U	1.4 UJ B, L	1.4 UJ B, L	6.9 U
1,4-Dichlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,3-Dichlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Hexachlorobutadiene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2-Dichlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Isopropyltoluene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Ethylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Styrene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
cis-1,3-Dichloropropene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
N-Propylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
N-Butylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
4-Chlorotoluene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2-Dibromoethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2-Dichloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
4-Methyl-2-Pentanone	ug/kg	8.6 U	8.3 U	7.6 U	--	8.3 U	8.0 U	--
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Bromobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Toluene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Chlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,4-Dioxane	ug/kg	15 U	15 U	14 U	--	15 U	15 U	--
Dibromochloromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Tetrachloroethene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
sec-Butylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,3-Dichloropropane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
m,p-Xylene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Carbon tetrachloride	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,1-Dichloropropene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
2-Hexanone	ug/kg	8.6 U	8.3 U	7.6 U	--	8.3 U	8.0 U	--
2,2-Dichloropropane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Acetone	ug/kg	8.6 U	8.3 U	7.6 U	--	8.3 U	8.0 U	--
Chloroform	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Benzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-097-SA8N-SB-4.0-5.0	SL-098-SA8N-SB-4.0-5.0	SL-099-SA8N-SB-4.0-5.0	SL-101-SA8N-SS-0.0-0.5	SL-101-SA8N-SB-4.0-5.0	SL-101-SA8N-SB-7.0-8.0	SL-102-SA8N-SS-0.0-0.5
Sample Date		05/12/2011	05/12/2011	05/12/2011	04/20/2011	05/12/2011	05/12/2011	04/20/2011
SDG		DE149	DE149	DE149	DE132	DE149	DE149	DE132
Start Depth		4	4	4	0	4	7	0
End Depth		5	5	5	0.5	5	8	0.5
1,1,1-Trichloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Bromomethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Chloromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Dibromomethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Bromochloromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Chloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Vinyl Chloride	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Methylene chloride	ug/kg	6.5	5.1	4.6	--	5.6	19	--
Bromoform	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Bromodichloromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,1-Dichloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,1-Dichloroethene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Trichlorofluoromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Dichlorodifluoromethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Freon 113a	ug/kg	5.4 U	5.2 U	4.7 U	--	5.2 U	5.0 U	--
Freon 113	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2-Dichloropropane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
2-Butanone	ug/kg	8.6 U	8.3 U	7.6 U	--	8.3 U	8.0 U	--
1,1,2-Trichloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Trichloroethene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Chlorotrifluoroethene	ug/kg	5.4 U	5.2 U	4.7 U	--	5.2 U	5.0 U	--
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
o-Xylene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
2-Chlorotoluene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
1,2,3-Trichloropropane	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
tert-Butylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--
Isopropylbenzene	ug/kg	4.3 U	4.1 U	3.8 U	--	4.2 U	4.0 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-105-SA8N-SB-4.0-5.0	SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0
Sample Date		05/12/2011	05/13/2011	05/10/2011	06/08/2011	04/20/2011	06/08/2011	06/08/2011
SDG		DE149	DE150	DE147	DE176	DE132	DE176	DE176
Start Depth		3	4	4	2.5	0	4	9
End Depth		4	5	5	3.5	0.5	5	10
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1 U	--	1 U	0.9 U	--	0.9 U	1.0 U
EFH (C12-C14)	mg/kg	1.4 U	--	1.4 U	1.4 U	120 U	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	1.4 U	--	1.4 U	1.4 U	61 J Z	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	1.4 U	--	1.4 U	1.6	520	1.6	2.6
EFH (C30-C40)	mg/kg	0.87 J Z	--	0.82 J Z	3.7	1600	3.9	6.8
EFH (C8-C11)	mg/kg	1.4 UJ B, L	--	1.4 U	1.4 U B	120 U	1.4 U B	1.4 U B
1,4-Dichlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,3-Dichlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Hexachlorobutadiene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2-Dichlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Isopropyltoluene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Ethylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Styrene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
cis-1,3-Dichloropropene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
N-Propylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
N-Butylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
4-Chlorotoluene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2-Dibromoethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2-Dichloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
4-Methyl-2-Pentanone	ug/kg	7.6 U	7.8 U	8.0 U	7.6 U	--	8.1 U	8.1 U
1,3,5-Trimethylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Bromobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Toluene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U B	--	4.1 U B	4.0 U B
Chlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,4-Dioxane	ug/kg	16 U	14 U	15 U	15 U	--	15 U	15 U
Dibromochloromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Tetrachloroethene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
sec-Butylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,3-Dichloropropane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
trans-1,2-Dichloroethene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Methyl tert-Butyl Ether	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
m,p-Xylene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Carbon tetrachloride	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,1-Dichloropropene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
2-Hexanone	ug/kg	7.6 U	7.8 U	8.0 U	7.6 U	--	8.1 U	8.1 U
2,2-Dichloropropane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Acetone	ug/kg	7.6 U	7.8 U	15	7.6 U B	--	8.1 U B	8.1 U B
Chloroform	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Benzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-103-SA8N-SB-3.0-4.0	SL-104-SA8N-SB-4.0-5.0	SL-105-SA8N-SB-4.0-5.0	SL-106-SA8N-SB-2.5-3.5	SL-108-SA8N-SS-0.0-0.5	SL-109-SA8N-SB-4.0-5.0	SL-109-SA8N-SB-9.0-10.0
Sample Date		05/12/2011	05/13/2011	05/10/2011	06/08/2011	04/20/2011	06/08/2011	06/08/2011
SDG		DE149	DE150	DE147	DE176	DE132	DE176	DE176
Start Depth		3	4	4	2.5	0	4	9
End Depth		4	5	5	3.5	0.5	5	10
1,1,1-Trichloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Bromomethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Chloromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Dibromomethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Bromochloromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Chloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Vinyl Chloride	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Methylene chloride	ug/kg	3.8 U B	5.3	4.0 U B	3.8 UJ B, L	--	4.1 UJ B, L	4.0 UJ B, L
Bromoform	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Bromodichloromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,1-Dichloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,1-Dichloroethene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Trichlorofluoromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Dichlorodifluoromethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Freon 113a	ug/kg	4.8 U	4.9 U	5.0 U	4.7 U	--	5.1 U	5.1 U
Freon 113	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2-Dichloropropane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
2-Butanone	ug/kg	7.6 U	7.8 U	8.0 U	7.6 U	--	2.5 J Z	2.5 J Z
1,1,2-Trichloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Trichloroethene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Chlorotrifluoroethene	ug/kg	4.8 U	4.9 U	5.0 U	4.7 U	--	5.1 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
o-Xylene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
2-Chlorotoluene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2,4-Trimethylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
1,2,3-Trichloropropane	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
tert-Butylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U
Isopropylbenzene	ug/kg	3.8 U	3.9 U	4.0 U	3.8 U	--	4.1 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0	SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	06/10/2011	04/21/2011	04/21/2011	04/21/2011	06/09/2011	04/21/2011
SDG		DE134	DE178	DE134	DE134	DE134	DE177	DE134
Start Depth		0	3	0	0	0	4	0
End Depth		0.5	4	0.5	0.5	0.5	5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	0.9 U	--	--	--	1 U	--
EFH (C12-C14)	mg/kg	1.4 U	1.3 U	1.4 U	130 U	36 U	1.4 U	160 U
EFH (C15-C20)	mg/kg	5.6	1.3 U	3.2	130 U	13 J Z	0.51 J Z	160 U
EFH (C21-C30)	mg/kg	21	1.8	10	340	150	5	640
EFH (C30-C40)	mg/kg	57	1.3 U B	26	1600	650	5.7	2800
EFH (C8-C11)	mg/kg	1.4 U	1.3 U	1.4 U	130 U	36 U	1.4 U	160 U
1,4-Dichlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2,4-Trichlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,3-Dichlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Hexachlorobutadiene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2-Dichlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Isopropyltoluene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Ethylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Styrene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
cis-1,3-Dichloropropene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
trans-1,3-Dichloropropene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
N-Propylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
N-Butylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
4-Chlorotoluene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2-Dibromoethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2-Dichloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
4-Methyl-2-Pentanone	ug/kg	--	7.8 U	--	--	--	7.4 U	--
1,3,5-Trimethylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Bromobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Toluene	ug/kg	--	0.09 J Z	--	--	--	0.17 J Z	--
Chlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,4-Dioxane	ug/kg	--	15 U	--	--	--	14 U	--
Dibromochloromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Tetrachloroethene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
sec-Butylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,3-Dichloropropane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
cis-1,2-Dichloroethene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
trans-1,2-Dichloroethene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Methyl tert-Butyl Ether	ug/kg	--	3.9 U	--	--	--	3.7 U	--
m,p-Xylene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Carbon tetrachloride	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,1-Dichloropropene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
2-Hexanone	ug/kg	--	7.8 U	--	--	--	7.4 U	--
2,2-Dichloropropane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Acetone	ug/kg	--	7.8 U	--	--	--	7.4 U	--
Chloroform	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Benzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-111-SA8N-SS-0.0-0.5	SL-111-SA8N-SB-3.0-4.0	SL-112-SA8N-SS-0.0-0.5	SL-115-SA8N-SS-0.0-0.5	SL-116-SA8N-SS-0.0-0.5	SL-116-SA8N-SB-4.0-5.0	SL-117-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	06/10/2011	04/21/2011	04/21/2011	04/21/2011	06/09/2011	04/21/2011
SDG		DE134	DE178	DE134	DE134	DE134	DE177	DE134
Start Depth		0	3	0	0	0	4	0
End Depth		0.5	4	0.5	0.5	0.5	5	0.5
1,1,1-Trichloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Bromomethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Chloromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Dibromomethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Bromochloromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Chloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Vinyl Chloride	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Methylene chloride	ug/kg	--	3.9 UJ B, L	--	--	--	3.7 UJ B, L	--
Bromoform	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Bromodichloromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,1-Dichloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,1-Dichloroethene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Trichlorofluoromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Dichlorodifluoromethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Freon 113a	ug/kg	--	4.9 U	--	--	--	4.6 U	--
Freon 113	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2-Dichloropropane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
2-Butanone	ug/kg	--	7.8 U	--	--	--	7.4 U	--
1,1,2-Trichloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Trichloroethene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Chlorotrifluoroethene	ug/kg	--	4.9 U	--	--	--	4.6 U	--
1,2,3-Trichlorobenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
o-Xylene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
2-Chlorotoluene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2,4-Trimethylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
1,2,3-Trichloropropane	ug/kg	--	3.9 U	--	--	--	3.7 U	--
tert-Butylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--
Isopropylbenzene	ug/kg	--	3.9 U	--	--	--	3.7 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5	SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0
Sample Date		04/21/2011	04/21/2011	04/20/2011	05/11/2011	05/11/2011	04/19/2011	06/07/2011
SDG		DE134	DE134	DE132	DE148	DE148	DE131	DE175
Start Depth		0	0	0	4	9	0	2
End Depth		0.5	0.5	0.5	5	10	0.5	3
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	1.1 U	1 U	--	1.0 U
EFH (C12-C14)	mg/kg	180 U	1.3 U	13 U	2.6 U	2.7 U	1.2 U	1.3 U
EFH (C15-C20)	mg/kg	180 U	2.8 J Q	13 U	2.6 U	2.7 U	0.97 J Z	0.54 J Z
EFH (C21-C30)	mg/kg	540	12	48	10	17	7.4	2.9
EFH (C30-C40)	mg/kg	2100	30	200	73	100	23	5.4
EFH (C8-C11)	mg/kg	180 U	1.3 U	13 U	2.6 UJ B, Q, L	2.7 UJ B, L	1.2 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2,4-Trichlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,3-Dichlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Hexachlorobutadiene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2-Dichlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Isopropyltoluene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Ethylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Styrene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
N-Propylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
N-Butylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
4-Chlorotoluene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2-Dibromoethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2-Dichloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
4-Methyl-2-Pentanone	ug/kg	--	--	--	8.1 U	7.8 U	--	8.2 U
1,3,5-Trimethylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Bromobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Toluene	ug/kg	--	--	--	4.0 U	0.08 J Z	--	4.1 U B
Chlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,4-Dioxane	ug/kg	--	--	--	14 U	15 U	--	15 U
Dibromochloromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Tetrachloroethene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
sec-Butylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,3-Dichloropropane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
cis-1,2-Dichloroethene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
trans-1,2-Dichloroethene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Methyl tert-Butyl Ether	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
m,p-Xylene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Carbon tetrachloride	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,1-Dichloropropene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
2-Hexanone	ug/kg	--	--	--	8.1 U	7.8 U	--	8.2 U
2,2-Dichloropropane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Acetone	ug/kg	--	--	--	8.1 U	7.8 U	--	8.2 U B
Chloroform	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Benzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-118-SA8N-SS-0.0-0.5	SL-119-SA8N-SS-0.0-0.5	SL-120-SA8N-SS-0.0-0.5	SL-120-SA8N-SB-4.0-5.0	SL-120-SA8N-SB-9.0-10.0	SL-122-SA8N-SS-0.0-0.5	SL-122-SA8N-SB-2.0-3.0
Sample Date		04/21/2011	04/21/2011	04/20/2011	05/11/2011	05/11/2011	04/19/2011	06/07/2011
SDG		DE134	DE134	DE132	DE148	DE148	DE131	DE175
Start Depth		0	0	0	4	9	0	2
End Depth		0.5	0.5	0.5	5	10	0.5	3
1,1,1-Trichloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Bromomethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Chloromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Dibromomethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Bromochloromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Chloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Vinyl Chloride	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Methylene chloride	ug/kg	--	--	--	8.1	6.1	--	4.1 U B
Bromoform	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Bromodichloromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,1-Dichloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,1-Dichloroethene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Trichlorofluoromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Dichlorodifluoromethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Freon 113a	ug/kg	--	--	--	5.1 U	4.9 U	--	5.2 U
Freon 113	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2-Dichloropropane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
2-Butanone	ug/kg	--	--	--	8.1 U	7.8 U	--	8.2 U
1,1,2-Trichloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Trichloroethene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Chlorotrifluoroethene	ug/kg	--	--	--	5.1 U	4.9 U	--	5.2 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
o-Xylene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
2-Chlorotoluene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2,4-Trimethylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
1,2,3-Trichloropropane	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
tert-Butylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U
Isopropylbenzene	ug/kg	--	--	--	4.0 U	3.9 U	--	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-125-SA8N-SS-0.0-0.5	SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/20/2011
SDG		DE134	DE134	DE132	DE147	DE132	DE147	DE132
Start Depth		0	0	0	4	0	2.5	0
End Depth		0.5	0.5	0.5	5	0.5	3.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	--	--	--	0.9 U	--	1.0 U	--
EFH (C12-C14)	mg/kg	7.4 U	2.7 U	1.3 U	1.3 U	2.9 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	5.6 J Z	6.1	1.1 J Z	1.3 U	1.0 J Z	1.3 U	2.4
EFH (C21-C30)	mg/kg	45	37	16	1.3 U	12	0.45 J Z	10
EFH (C30-C40)	mg/kg	180	110	43	0.50 J Z	45	1.8	28
EFH (C8-C11)	mg/kg	7.4 U	2.7 U	1.3 U	1.3 U	2.9 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,3-Dichlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Hexachlorobutadiene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2-Dichlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Isopropyltoluene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Ethylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Styrene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
N-Propylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
N-Butylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
4-Chlorotoluene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2-Dibromoethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2-Dichloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	--	8.4 U	--	9.0 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Bromobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Toluene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Chlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,4-Dioxane	ug/kg	--	--	--	16 U	--	16 U	--
Dibromochloromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Tetrachloroethene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
sec-Butylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,3-Dichloropropane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	--	4.2 U	--	4.5 U	--
m,p-Xylene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Carbon tetrachloride	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,1-Dichloropropene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
2-Hexanone	ug/kg	--	--	--	8.4 U	--	9.0 U	--
2,2-Dichloropropane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Acetone	ug/kg	--	--	--	8.4 U	--	9.0 U	--
Chloroform	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Benzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-125-SA8N-SS-0.0-0.5	SL-126-SA8N-SS-0.0-0.5	SL-127-SA8N-SS-0.0-0.5	SL-127-SA8N-SB-4.0-5.0	SL-128-SA8N-SS-0.0-0.5	SL-128-SA8N-SB-2.5-3.5	SL-129-SA8N-SS-0.0-0.5
Sample Date		04/21/2011	04/21/2011	04/20/2011	05/10/2011	04/20/2011	05/10/2011	04/20/2011
SDG		DE134	DE134	DE132	DE147	DE132	DE147	DE132
Start Depth		0	0	0	4	0	2.5	0
End Depth		0.5	0.5	0.5	5	0.5	3.5	0.5
1,1,1-Trichloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Bromomethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Chloromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Dibromomethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Bromochloromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Chloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Vinyl Chloride	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Methylene chloride	ug/kg	--	--	--	5.2	--	12	--
Bromoform	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Bromodichloromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,1-Dichloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,1-Dichloroethene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Trichlorofluoromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Dichlorodifluoromethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Freon 113a	ug/kg	--	--	--	5.2 U	--	5.6 U	--
Freon 113	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2-Dichloropropane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
2-Butanone	ug/kg	--	--	--	8.4 U	--	9.0 U	--
1,1,2-Trichloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Trichloroethene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Chlorotrifluoroethene	ug/kg	--	--	--	5.2 U	--	5.6 U	--
1,2,3-Trichlorobenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
o-Xylene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
2-Chlorotoluene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2,4-Trimethylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
1,2,3-Trichloropropane	ug/kg	--	--	--	4.2 U	--	4.5 U	--
tert-Butylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--
Isopropylbenzene	ug/kg	--	--	--	4.2 U	--	4.5 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-129-SA8N-SB-4.0-5.0	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5	SL-135-SA8N-SS-0.0-0.5
Sample Date		05/10/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011	04/19/2011
SDG		DE147	DE130	DE127	DE174	DE175	DE127	DE131
Start Depth		4	0	0	4	7	0	0
End Depth		5	0.5	0.5	5	8	0.5	0.5
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.0 U	--	--	1.1 U	1 U	--	--
EFH (C12-C14)	mg/kg	1.3 U	13 U	7.0 U	1.4 U	1.4 U	1.4 U	1.3 U
EFH (C15-C20)	mg/kg	1.3 U	13 U	9.8	1.4 U	1.4 U	3.2	1.3 U
EFH (C21-C30)	mg/kg	1.3 U	19	44	1.4 U	1.4 U	12	1.6
EFH (C30-C40)	mg/kg	1.3 U	120	140	1.4 U B	1.4 U B	31	4.9
EFH (C8-C11)	mg/kg	1.3 U	13 U	7.0 U	1.4 U	1.4 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2,4-Trichlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,3-Dichlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Hexachlorobutadiene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2-Dichlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Isopropyltoluene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Ethylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Styrene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
cis-1,3-Dichloropropene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
trans-1,3-Dichloropropene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
N-Propylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
N-Butylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
4-Chlorotoluene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2-Dibromoethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2-Dichloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
4-Methyl-2-Pentanone	ug/kg	8.4 U	--	--	8.3 U	8.4 U	--	--
1,3,5-Trimethylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Bromobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Toluene	ug/kg	0.13 J Z	--	--	0.17 J Z	4.2 U B	--	--
Chlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,4-Dioxane	ug/kg	14 U	--	--	17 U	15 U	--	--
Dibromochloromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Tetrachloroethene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
sec-Butylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,3-Dichloropropane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
cis-1,2-Dichloroethene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
trans-1,2-Dichloroethene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Methyl tert-Butyl Ether	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
m,p-Xylene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Carbon tetrachloride	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,1-Dichloropropene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
2-Hexanone	ug/kg	8.4 U	--	--	8.3 U	8.4 U	--	--
2,2-Dichloropropane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Acetone	ug/kg	10	--	--	8.3 U B	8.4 U B	--	--
Chloroform	ug/kg	4.2 U	--	--	0.16 J Z	4.2 U	--	--
Benzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-129-SA8N-SB-4.0-5.0	SL-132-SA8N-SS-0.0-0.5	SL-133-SA8N-SS-0.0-0.5	SL-133-SA8N-SB-4.0-5.0	SL-133-SA8N-SB-7.0-8.0	SL-134-SA8N-SS-0.0-0.5	SL-135-SA8N-SS-0.0-0.5
Sample Date		05/10/2011	04/18/2011	04/14/2011	06/06/2011	06/06/2011	04/14/2011	04/19/2011
SDG		DE147	DE130	DE127	DE174	DE175	DE127	DE131
Start Depth		4	0	0	4	7	0	0
End Depth		5	0.5	0.5	5	8	0.5	0.5
1,1,1-Trichloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Bromomethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Chloromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Dibromomethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Bromochloromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Chloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Vinyl Chloride	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Methylene chloride	ug/kg	23	--	--	4.1 U B	4.2 U B	--	--
Bromoform	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Bromodichloromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,1-Dichloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,1-Dichloroethene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Trichlorofluoromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Dichlorodifluoromethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Freon 113a	ug/kg	5.3 U	--	--	5.2 U	5.2 U	--	--
Freon 113	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2-Dichloropropane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
2-Butanone	ug/kg	8.4 U	--	--	8.3 U	8.4 U	--	--
1,1,2-Trichloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Trichloroethene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Chlorotrifluoroethene	ug/kg	5.3 U	--	--	5.2 U	5.2 U	--	--
1,2,3-Trichlorobenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
o-Xylene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
2-Chlorotoluene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2,4-Trimethylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
1,2,3-Trichloropropane	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
tert-Butylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--
Isopropylbenzene	ug/kg	4.2 U	--	--	4.1 U	4.2 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-4.0-5.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		05/09/2011	05/11/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE146	DE148	DE147	DE131	DE131	DE131	DE175
Start Depth		2	4	4	0	0	0	3
End Depth		3	5	5	0.5	0.5	0.5	4
Chemical Name	Unit							
GRO (C5-C12)	mg/kg	1.1 U	--	--	--	--	--	1.0 U
EFH (C12-C14)	mg/kg	1.3 U	--	--	2.5 U	1.3 U	2.7 U	1.4 U
EFH (C15-C20)	mg/kg	1.3 U	--	--	3.6	0.85 J Z	2.6 J Z	1.4 U
EFH (C21-C30)	mg/kg	1.3 U	--	--	17	5.8 J Q	14	1.4 U
EFH (C30-C40)	mg/kg	1.3 U	--	--	49	22	48	1.4 U B
EFH (C8-C11)	mg/kg	1.3 U	--	--	2.5 U	1.3 U	2.7 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,3-Dichlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Hexachlorobutadiene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2-Dichlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Isopropyltoluene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Ethylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Styrene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
N-Propylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
N-Butylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
4-Chlorotoluene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2-Dibromoethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2-Dichloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	7.9 U	7.5 U	--	--	--	7.6 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Bromobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Toluene	ug/kg	4.4 U B	0.08 J Z	0.1 J Z	--	--	--	3.8 U B
Chlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,4-Dioxane	ug/kg	17 U	16 U	14 U	--	--	--	15 U
Dibromochloromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Tetrachloroethene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
sec-Butylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,3-Dichloropropane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
m,p-Xylene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Carbon tetrachloride	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,1-Dichloropropene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
2-Hexanone	ug/kg	8.7 U	7.9 U	7.5 U	--	--	--	7.6 U
2,2-Dichloropropane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Acetone	ug/kg	8.7 U	7.9 U	7.5 U	--	--	--	7.6 U B
Chloroform	ug/kg	0.14 J Z	0.13 J Z	3.7 U	--	--	--	3.8 U
Benzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-135-SA8N-SB-2.0-3.0	SL-136-SA8N-SB-4.0-5.0	SL-137-SA8N-SB-4.0-5.0	SL-139-SA8N-SS-0.0-0.5	SL-138-SA8N-SS-0.0-0.5	SL-140-SA8N-SS-0.0-0.5	SL-140-SA8N-SB-3.0-4.0
Sample Date		05/09/2011	05/11/2011	05/10/2011	04/19/2011	04/19/2011	04/19/2011	06/07/2011
SDG		DE146	DE148	DE147	DE131	DE131	DE131	DE175
Start Depth		2	4	4	0	0	0	3
End Depth		3	5	5	0.5	0.5	0.5	4
1,1,1-Trichloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Bromomethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Chloromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Dibromomethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Bromochloromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Chloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Vinyl Chloride	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Methylene chloride	ug/kg	27	20	13	--	--	--	3.8 U B
Bromoform	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Bromodichloromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,1-Dichloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,1-Dichloroethene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Trichlorofluoromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Dichlorodifluoromethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Freon 113a	ug/kg	5.4 U	4.9 U	4.7 U	--	--	--	4.7 U
Freon 113	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2-Dichloropropane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
2-Butanone	ug/kg	8.7 U	7.9 U	7.5 U	--	--	--	7.6 U
1,1,2-Trichloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Trichloroethene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Chlorotrifluoroethene	ug/kg	5.4 U	4.9 U	4.7 U	--	--	--	4.7 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
o-Xylene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
2-Chlorotoluene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
1,2,3-Trichloropropane	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
tert-Butylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U
Isopropylbenzene	ug/kg	4.4 U	3.9 U	3.7 U	--	--	--	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A6
Volatiles - Validated Data
HSA-8N

Sample Name		SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/09/2011
SDG		DE129	DE146
Start Depth		0	4
End Depth		0.5	5
Chemical Name	Unit		
GRO (C5-C12)	mg/kg	--	1.1 U
EFH (C12-C14)	mg/kg	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	8.5	1.4 U
EFH (C21-C30)	mg/kg	9.3	1.4 U
EFH (C30-C40)	mg/kg	21	0.85 J Z
EFH (C8-C11)	mg/kg	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	4.5 U
1,2,4-Trichlorobenzene	ug/kg	--	4.5 U
1,3-Dichlorobenzene	ug/kg	--	4.5 U
Hexachlorobutadiene	ug/kg	--	4.5 U
1,2-Dichlorobenzene	ug/kg	--	4.5 U
Isopropyltoluene	ug/kg	--	4.5 U
Ethylbenzene	ug/kg	--	4.5 U
Styrene	ug/kg	--	4.5 U
cis-1,3-Dichloropropene	ug/kg	--	4.5 U
trans-1,3-Dichloropropene	ug/kg	--	4.5 U
N-Propylbenzene	ug/kg	--	4.5 U
N-Butylbenzene	ug/kg	--	4.5 U
4-Chlorotoluene	ug/kg	--	4.5 U
1,2-Dibromoethane	ug/kg	--	4.5 U
1,2-Dichloroethane	ug/kg	--	4.5 U
4-Methyl-2-Pentanone	ug/kg	--	9.1 U
1,3,5-Trimethylbenzene	ug/kg	--	4.5 U
Bromobenzene	ug/kg	--	4.5 U
Toluene	ug/kg	--	4.5 U B
Chlorobenzene	ug/kg	--	4.5 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.5 U
1,4-Dioxane	ug/kg	--	15 U
Dibromochloromethane	ug/kg	--	4.5 U
Tetrachloroethene	ug/kg	--	4.5 U
sec-Butylbenzene	ug/kg	--	4.5 U
1,3-Dichloropropane	ug/kg	--	4.5 U
cis-1,2-Dichloroethene	ug/kg	--	4.5 U
trans-1,2-Dichloroethene	ug/kg	--	4.5 U
Methyl tert-Butyl Ether	ug/kg	--	4.5 U
m,p-Xylene	ug/kg	--	4.5 U
Carbon tetrachloride	ug/kg	--	4.5 U
1,1-Dichloropropene	ug/kg	--	4.5 U
2-Hexanone	ug/kg	--	9.1 U
2,2-Dichloropropane	ug/kg	--	4.5 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.5 U
Acetone	ug/kg	--	9.1 UJ FD
Chloroform	ug/kg	--	0.16 J FD, Z
Benzene	ug/kg	--	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-141-SA8N-SS-0.0-0.5	SL-141-SA8N-SB-4.0-5.0
Sample Date		04/15/2011	05/09/2011
SDG		DE129	DE146
Start Depth		0	4
End Depth		0.5	5
1,1,1-Trichloroethane	ug/kg	--	4.5 U
Bromomethane	ug/kg	--	4.5 U
Chloromethane	ug/kg	--	4.5 U
Dibromomethane	ug/kg	--	4.5 U
Bromochloromethane	ug/kg	--	4.5 U
Chloroethane	ug/kg	--	4.5 U
Vinyl Chloride	ug/kg	--	4.5 U
Methylene chloride	ug/kg	--	30 J Q
Bromoform	ug/kg	--	4.5 U
Bromodichloromethane	ug/kg	--	4.5 U
1,1-Dichloroethane	ug/kg	--	4.5 U
1,1-Dichloroethene	ug/kg	--	4.5 U
Trichlorofluoromethane	ug/kg	--	4.5 U
Dichlorodifluoromethane	ug/kg	--	4.5 U
Freon 113a	ug/kg	--	5.7 U
Freon 113	ug/kg	--	4.5 U
1,2-Dichloropropane	ug/kg	--	4.5 U
2-Butanone	ug/kg	--	9.1 U
1,1,2-Trichloroethane	ug/kg	--	4.5 U
Trichloroethene	ug/kg	--	17 J FD, Q
1,1,2,2-Tetrachloroethane	ug/kg	--	4.5 U
Chlorotrifluoroethene	ug/kg	--	5.7 U
1,2,3-Trichlorobenzene	ug/kg	--	4.5 U
o-Xylene	ug/kg	--	4.5 U
2-Chlorotoluene	ug/kg	--	4.5 U
1,2,4-Trimethylbenzene	ug/kg	--	4.5 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.5 U
1,2,3-Trichloropropane	ug/kg	--	4.5 U
tert-Butylbenzene	ug/kg	--	4.5 U
Isopropylbenzene	ug/kg	--	4.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ Q	1.1 U	1.0 UJ Q	1.0 UJ Q	8.8 J Q	1.1 UJ Q	5.1 J Q
Aluminum	mg/kg	25500	16100	17900	11100	14700	11700	13600
Iron	mg/kg	37700	17700	20900	11100	18800 J Q	13600	21700 J Q
Lead	mg/kg	18.2 J A	7.63	20.8 J A	6.61 J A	9.50 J Q, A	10.9 J A	10.8 J Q, A
Lithium	mg/kg	25.3	17.5	18.5	12.7	15	15.3	16.1
Magnesium	mg/kg	7650	5600 J E	6100	3930	6040	4330	5530
Manganese	mg/kg	337	334	278	167	305	180	382
Mercury	mg/kg	0.0132 J Z	0.105 U	0.0184 J Z	0.0987 U	0.0188 J Z	0.0161 J Z	0.0098 J Z
Molybdenum	mg/kg	0.461 J Q	0.110 U B	0.322 J Q	0.136 J Q	0.111 U B	0.277 J Q	0.112 U B
Nickel	mg/kg	25.7 J Q	15.2	17.1 J Q	9.79 J Q	17.5 J Q, A	13.2 J Q	23.5 J Q, A
Potassium	mg/kg	5170 J Q	3220 J Q	3130 J Q	1460 J Q	2780 J Q	1640 J Q	2580 J Q
Silver	mg/kg	0.102 UJ B, Q	0.110 U	0.101 UJ B, Q	0.102 U	0.111 U	0.104 U	0.112 U
Sodium	mg/kg	118	139 J E	121	120	1030	117	242
Strontium	mg/kg	125	230	156	182	256	142	219
Thallium	mg/kg	0.420 J Q	0.284	0.257 J Q	0.123 J Q	0.22	0.176 J Q	0.244
Tin	mg/kg	10.5 U B	11.0 U B	10.2 U B	10.2 U B	10.8 U B	10.4 U B	11.2 U B
Titanium	mg/kg	1350	871	832	542	620	674	543
Antimony	mg/kg	0.225 J Q	0.219 U	0.206 J Q	0.123 J Q, Z	0.0854 J Q, Z	0.140 J Q, Z	0.103 J Q, Z
Arsenic	mg/kg	8.60 J E, Q	4.88	6.79 J E, Q	4.49 J E, Q	6.98 J Q	4.87 J E, Q	6.29 J Q
Beryllium	mg/kg	0.853	0.66	0.656	0.478	0.568	0.418	0.625
Barium	mg/kg	138 J A	88.9	93.2 J A	82.4 J A	114 J E, A	88.6 J A	84.3 J E, A
Boron	mg/kg	14.5	9.1	11.2	8.92	17.6	9.04	15.3
Cadmium	mg/kg	0.389 J Q	0.394	0.300 J Q	0.232 J Q	0.24	0.225 J Q	0.456
Chromium	mg/kg	47.4 J Q	35.3	29.9 J Q	23.8 J Q	28.5 J Q, A	23.8 J Q	30.7 J Q, A
Cobalt	mg/kg	12.2 J Q, A	8.59	9.60 J Q, A	4.85 J Q, A	8.89 J A	6.87 J Q, A	9.54 J A
Copper	mg/kg	23.5 J E, Q	12.7	18.8 J E, Q	9.34 J Q	14.9	12.6 J Q	15.1
Vanadium	mg/kg	86.2 J E	59.9	51.6 J E	37.4 J E	49.4 J A	38.5 J E	53.0 J A
Zinc	mg/kg	90.9	56.5	55.1	27.9	48.1	34.9	54.5
Zirconium	mg/kg	2.86 J Z	6.08	3.40 J Z	2.30 J Z	4.75 J Z	2.00 J Z	3.96 J Z
Calcium	mg/kg	76800	122000	144000	239000	161000	242000	172000
Phosphorus	mg/kg	638	420	452	228	349	279	282
Selenium	mg/kg	0.489	0.166 J Z	0.252 J Z	0.143 J Z	0.181 J Z	0.213 J Z	0.201 J Z
Chromium VI	mg/kg	0.42 J Z	0.35 J Z	0.41 J Z	1.4	1.1 U	2.2	1.2 U
Perchlorate (314.0)	ug/kg	31.8 U	33.6 U	31.0 U	30.8 U	33.7 U	31.4 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	10.6	3.3	2.7	10.9	4.4	13.4
pH	pH unit	7.43	8.77	7.81	8.13	9.23	8.31	8.7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	--	1.1 U	1.1 U	2.8 J Q	2.5 J Q	1.1 U	1.5
Aluminum	mg/kg	23100	11100	21300	20800	10700	21800	26100
Iron	mg/kg	27000	19000	23000	29000 J Q	14500 J Q	25400	43200
Lead	mg/kg	21.9 J A	5.98 J E	9.34 J A	9.07 J Q, A	8.28 J Q, A	26.1 J A	16.7 J E
Lithium	mg/kg	21	9.8	27.1	31.1	15.7	21.7	34.1
Magnesium	mg/kg	7570	4330	6950	7210	4280	7290	9100
Manganese	mg/kg	386	325 J E	372	271	516	355	303 J E
Mercury	mg/kg	0.0414 J Z	0.107 U	0.104 U B	0.107 U	0.109 U	0.0308 J Z	0.113 U
Molybdenum	mg/kg	0.44	0.106 U B	0.13	0.113 U B	0.105 U B	0.302	0.595
Nickel	mg/kg	19.9 J A	11.7 J E, Q	12.6 J A	17.3 J Q, A	15.3 J Q, A	17.5 J A	25.0 J E, Q
Potassium	mg/kg	5660	2160 J Q	3680	3580 J Q	2270 J Q	5340	3920 J Q
Silver	mg/kg	0.0303 J Z	0.106 U	0.104 U	0.0229 J Z	0.0191 J Z	0.107 U	0.0281 J Z
Sodium	mg/kg	108	128	114	180	155	117	136
Strontium	mg/kg	108	212	121	100	166	134	93.1
Thallium	mg/kg	0.339	0.106 UJ E, B, Q	0.224	0.293	0.254	0.225	0.448 J E, Q
Tin	mg/kg	10.7 U B	10.8 U B	10.4 U B	11.0 U B	10.8 U B	10.7 U B	11.2 U B
Titanium	mg/kg	1020 J L	478	870	631	374	971	1080
Antimony	mg/kg	0.192 J Q, Z	0.120 J Q, E, Z	0.207 UJ Q	0.226 UJ Q	0.209 UJ Q	0.134 J Q, Z	0.196 J Q, E, Z
Arsenic	mg/kg	6.55 J Q	5.82 J E	4.53 J Q	5.31 J Q	5.06 J Q	5.85 J Q	11.4 J E
Beryllium	mg/kg	0.675 J Q	0.490 J E, Q	0.521 J Q	0.634	0.586	0.573 J Q	0.968 J E, Q
Barium	mg/kg	96.3 J A	60.0 J E	63.6 J A	67.4 J E, A	61.2 J E, A	76.3 J A	101 J E
Boron	mg/kg	12.2	7.42	8.16	13.5	10.2	12.1	5.00 J Z
Cadmium	mg/kg	0.295	0.285 J Q	0.212	0.355	0.322	0.31	0.196 J Q
Chromium	mg/kg	28.9 J Q, A	28.8 J E, Q	25.6 J Q, A	30.0 J Q, A	26.6 J Q, A	26.5 J Q, A	30.3 J E, Q
Cobalt	mg/kg	10.6 J A	5.53 J E, Q	5.78 J A	9.27 J A	8.41 J A	9.15 J A	12.8 J E, Q
Copper	mg/kg	21.0 J A	10.1 J E, Q	12.4 J A	17	9.74	17.2 J A	36.9 J E, Q
Vanadium	mg/kg	52.9 J A	36.5 J E	39.3 J A	41.8 J A	37.1 J A	44.7 J A	63.3 J E
Zinc	mg/kg	70.9 J A	34.7 J E, A	45.2 J A	47.1	42.3	57.3 J A	83.1 J E, A
Zirconium	mg/kg	4.12 J Z	5.48	3.48 J Z	6.59	3.53 J Z	4.23 J Z	7.71
Calcium	mg/kg	84200 J E	172000	122000 J E	79200	177000	107000 J E	66300
Phosphorus	mg/kg	588	328	424	461	346	507	374
Selenium	mg/kg	0.268 J Z	0.103 J Z	0.167 J Z	0.250 J Z	0.185 J Z	0.187 J Z	0.508
Chromium VI	mg/kg	0.69 J Z	0.24 J Z	0.62 J Z	1.1 U	0.24 J Z	1.1	0.73 J Z
Perchlorate (314.0)	ug/kg	32.2 U	32.6 U	31.7 U	34.2 U	32.6 U	32.2 U	34.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	6.7	7.9	5.3	12.4	8.1	6.7	13
pH	pH unit	7.59	8.47	7.83	8.65	8.75	7.88	7.65

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.8	1.1 U	1.2	1.1 U	2.8	1.0 UJ Q	1.3 J Q
Aluminum	mg/kg	22400	23400	12000	30400	17000	15200	16000
Iron	mg/kg	25100	26500	15100	36800	26700	21500	23500 J Q
Lead	mg/kg	20.7 J E	19.8 J A	6.52 J E	17.6 J A	7.95	13.9 J A	7.62 J Q, A
Lithium	mg/kg	28.1	21.3	11.4	31.2	18.4	25.1	26
Magnesium	mg/kg	7610	7330	4450	9210	5770 J E	5380	5360
Manganese	mg/kg	275 J E	356	302 J E	307	271	328	335
Mercury	mg/kg	0.114 U	0.0257 J Z	0.110 U	0.0329 J Z	0.106 U	0.0194 J Z	0.100 U
Molybdenum	mg/kg	0.568	0.431	0.108 U B	0.362	0.317	2.03 J Q	0.475
Nickel	mg/kg	25.2 J E, Q	16.2 J A	15.7 J E, Q	20.5 J A	16	17.5 J Q	18.0 J Q, A
Potassium	mg/kg	3190 J Q	5170	2090 J Q	5170	2800 J Q	3850 J Q	2560 J Q
Silver	mg/kg	0.0345 J Z	0.0405 J Z	0.108 U	0.0384 J Z	0.109 U	0.103 UJ B, Q	0.0203 J Z
Sodium	mg/kg	148	98.1 J Z	115	114	144 J E	72.2 J Z	79.9 J Z
Strontium	mg/kg	101	91.5	160	81.7	197	37.8	38.5
Thallium	mg/kg	0.389 J E, Q	0.257	0.248 J E, Q	0.342	0.321	0.351 J Q	0.295
Tin	mg/kg	11.1 U B	10.4 U B	11.0 U B	10.4 U B	10.9 U B	9.90 U B	10.6 U B
Titanium	mg/kg	649	1080	569	1490	711	1100	918
Antimony	mg/kg	0.182 J Q, E, Z	0.105 J Q, Z	0.105 J Q, E, Z	0.141 J Q, Z	0.106 J Z	0.149 J Q, Z	0.0798 J Q, Z
Arsenic	mg/kg	16.0 J E	5.57 J Q	6.01 J E	8.06 J Q	10.9	7.58 J E, Q	6.25 J Q
Beryllium	mg/kg	0.964 J E, Q	0.591 J Q	0.630 J E, Q	0.757 J Q	0.573	0.69	0.658
Barium	mg/kg	111 J E	74.7 J A	72.8 J E	116 J A	95.8	108 J A	97.4 J E, A
Boron	mg/kg	5.58	10.2	6.87	11.6	7.11	7.63	10.1
Cadmium	mg/kg	0.256 J Q	0.312	0.222 J Q	0.247	0.262	0.235 J Q	0.235
Chromium	mg/kg	29.8 J E, Q	30.1 J Q, A	38.9 J E, Q	32.0 J Q, A	33.5	25.8 J Q	24.0 J Q, A
Cobalt	mg/kg	13.5 J E, Q	8.24 J A	7.99 J E, Q	12.2 J A	9.46	8.91 J Q, A	9.23 J A
Copper	mg/kg	37.9 J E, Q	16.2 J A	10.9 J E, Q	21.7 J A	13.4	14.3 J Q	11.3
Vanadium	mg/kg	58.7 J E	51.5 J A	53.9 J E	64.7 J A	57.3	49.8 J E	44.4 J A
Zinc	mg/kg	114 J E, A	58.7 J A	45.9 J E, A	77.0 J A	54.5	82.8	62.3
Zirconium	mg/kg	8.05	3.21 J Z	5.16 J Z	3.28 J Z	5.71	1.71 J Z	3.77 J Z
Calcium	mg/kg	70600	70400 J E	129000	36200 J E	116000	35400	40700
Phosphorus	mg/kg	582	620	321	678	373	469	443
Selenium	mg/kg	0.234 J Z	0.259 J Z	0.0717 J Z	0.331 J Z	0.236 J Z	0.221 J Z	0.182 J Z
Chromium VI	mg/kg	0.48 J Z	1.1 U	1.4	1.1 U	0.48 J Z	1.0 U	0.43 J Z
Perchlorate (314.0)	ug/kg	34.6 U	31.9 U	33.4 U	32.0 U	33.7 U	30.9 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.2	6	10.1	6.3	10.9	2.9	7.3
pH	pH unit	8.11	7.67	8.6	7.72	8.72	8	7.82

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 UJ Q	1.8 J Q	1.1 J Q	1.0 UJ Q	1.0 J Q, Z	1.8 J Q	1.1 U
Aluminum	mg/kg	21300	18400 J E	19000 J E	21000	18300 J E	21700 J E	22600
Iron	mg/kg	24200	25500	23500	23400	23200	25200	26200
Lead	mg/kg	14.9 J A	7.86 J Q, A	8.44 J Q, A	11.3 J A	7.59 J Q, A	9.03 J Q, A	14.4 J A
Lithium	mg/kg	23.9	24.6	23.6	22.6	23.2	24.4	21.6
Magnesium	mg/kg	6800	5750	5890	6720	5900	6540	6900
Manganese	mg/kg	402	366	398	451	433	375	462
Mercury	mg/kg	0.0138 J Z	0.106 U	0.108 U B	0.0074 J Z	0.105 U B	0.108 U	0.0294 J Z
Molybdenum	mg/kg	0.531 J Q	0.405	0.109 U B	0.491 J Q	0.385	0.381	0.574
Nickel	mg/kg	21.1 J Q	14.3 J A	15.7 J A	19.2 J Q	15.2 J A	16.2 J A	20.3 J A
Potassium	mg/kg	4610 J Q	2980 J Q	3260 J Q	4370 J Q	3310 J Q	3020 J Q	6450
Silver	mg/kg	0.0994 UJ B, Q	0.0205 J Z	0.0180 J Z	0.103 UJ B, Q	0.0154 J Z	0.0213 J Z	0.0519 J Z
Sodium	mg/kg	94.3 J Z	88.7 J Z	122	115	92.9 J Z	116	86.5 J Z
Strontium	mg/kg	73.1	62.5	107	101	72.6	97.7	28.9
Thallium	mg/kg	0.367 J Q	0.288	0.281	0.356 J Q	0.314	0.284	0.341
Tin	mg/kg	10.4 U B	10.6 U B	10.8 U B	10.2 U B	10.3 U B	11.2 U B	10.4 U B
Titanium	mg/kg	1050	964	963	1070	893	881	1220
Antimony	mg/kg	0.146 J Q, Z	0.0773 J Q, Z	0.113 J Q, Z	0.122 J Q, Z	0.208 UJ Q	0.104 J Q, Z	0.132 J Q, Z
Arsenic	mg/kg	6.92 J E, Q	6.54 J Q	5.73 J Q	6.44 J E, Q	5.76 J Q	6.29 J Q	6.22 J Q
Beryllium	mg/kg	0.748	0.676 J Q	0.659 J Q	0.71	0.619 J Q	0.751 J Q	0.698 J Q
Barium	mg/kg	115 J A	87.1	92.4	105 J A	95.7	91.4	109 J A
Boron	mg/kg	12.2	11.5	11.8	10.9	12.8	12.9	9.38
Cadmium	mg/kg	0.324 J Q	0.203	0.233	0.338 J Q	0.239	0.255	0.396
Chromium	mg/kg	32.3 J Q	24.8 J Q, A	26.1 J Q, A	31.3 J Q	26.2 J Q, A	29.6 J Q, A	28.8 J Q, A
Cobalt	mg/kg	9.79 J Q, A	7.79 J A	7.85 J A	9.63 J Q, A	7.94 J A	8.51 J A	10.1 J A
Copper	mg/kg	19.2 J E, Q	13.3 J A	14.5 J A	18.0 J E, Q	13.2 J A	15.0 J A	19.8 J A
Vanadium	mg/kg	51.4 J E	45.1 J A	45.8 J A	53.2 J E	45.2 J A	51.1 J A	49.4 J A
Zinc	mg/kg	72.3	60.1	58.6	63.8	62.7	59.8	77.5 J A
Zirconium	mg/kg	2.13 J Z	3.69 J Z	4.20 J Z	2.65 J Z	3.57 J Z	4.87 J Z	2.69 J Z
Calcium	mg/kg	68000	60400	110000	96600	72800	92700	12400 J E
Phosphorus	mg/kg	615	490	481	578	512	517	827
Selenium	mg/kg	0.315 J Z	0.245 J Z	0.206 J Z	0.291 J Z	0.224 J Z	0.436 J Z	0.207 J Z
Chromium VI	mg/kg	0.40 J Z	0.24 J Z	1.1 U	1.0 U	1.1 U	0.26 J Z	0.41 J Z
Perchlorate (314.0)	ug/kg	31.3 U	32.3 U	33.0 U	31.4 U	32.5 U	33.6 U	31.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	4.2	7.1	9.2	4.4	7.6	10.8	4.1
pH	pH unit	7.87	7.96	8.22	7.74	7.95	7.9	7.69

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.2 J Q	0.93 J Z	1.2 J Q	0.97 J Z	1.5 J Q	1.1 UJ Q	1.0 U
Aluminum	mg/kg	21400 J E	21800	28400 J E	24600	30600 J E	12900 J E	13200
Iron	mg/kg	23900	25800	29700	30100	28600	17400	19800
Lead	mg/kg	6.92 J Q, A	19.2 J A	8.87 J Q, A	13.4 J A	8.34 J Q, A	4.81 J Q, A	8.31 J A
Lithium	mg/kg	24.6	22.9	27.9	24	29.1	23.9	24.2
Magnesium	mg/kg	4600	7270	6630	7380	5660	3170	4070
Manganese	mg/kg	403	497	299	474	315	179	272
Mercury	mg/kg	0.103 U	0.0343 J Z	0.105 U B	0.102 U B	0.111 U B	0.103 U	0.102 U B
Molybdenum	mg/kg	0.49	0.57	0.555	0.504	0.596	0.393	0.459
Nickel	mg/kg	16.1 J A	17.4 J A	17.7 J A	19.3 J A	17.1 J A	7.43 J A	9.48 J A
Potassium	mg/kg	3940 J Q	6270	3490 J Q	6280	2950 J Q	1680 J Q	3000
Silver	mg/kg	0.0377 J Z	0.0746 J Z	0.0315 J Z	0.0484 J Z	0.0334 J Z	0.0258 J Z	0.0234 J Z
Sodium	mg/kg	83.0 J Z	88.5 J Z	94.3 J Z	86.8 J Z	84.3 J Z	73.6 J Z	57.7 J Z
Strontium	mg/kg	21.1	27.8	22	37.8	21.8	21.2	8.34
Thallium	mg/kg	0.313	0.284	0.291	0.306	0.357	0.242	0.254
Tin	mg/kg	11.0 U B	10.3 U B	10.8 U B	10.2 U B	11.0 U B	10.8 U B	9.83 U B
Titanium	mg/kg	1150	1210	1200	1200	1190	986	1020
Antimony	mg/kg	0.211 UJ Q	0.151 J Q, Z	0.138 J Q, Z	0.120 J Q, Z	0.115 J Q, Z	0.212 UJ Q	0.0723 J Q, Z
Arsenic	mg/kg	5.12 J Q	5.77 J Q	6.70 J Q	6.24 J Q	7.40 J Q	6.24 J Q	6.79 J Q
Beryllium	mg/kg	0.735 J Q	0.626 J Q	0.757 J Q	0.690 J Q	0.920 J Q	0.519 J Q	0.476 J Q
Barium	mg/kg	116	107 J A	74.8	107 J A	122	77.2	74.6 J A
Boron	mg/kg	9.65	10.1	11.5	8.97	10.9	3.99 J Z	1.70 J Z
Cadmium	mg/kg	0.176	0.398	0.159	0.402	0.0985 J Z	0.106 U	0.153
Chromium	mg/kg	22.5 J Q, A	26.3 J Q, A	28.5 J Q, A	30.0 J Q, A	28.6 J Q, A	12.7 J Q, A	14.3 J Q, A
Cobalt	mg/kg	8.16 J A	9.05 J A	9.96 J A	9.73 J A	8.56 J A	5.54 J A	5.64 J A
Copper	mg/kg	12.1 J A	18.5 J A	15.0 J A	19.2 J A	12.7 J A	6.42 J A	7.44 J A
Vanadium	mg/kg	43.7 J A	44.7 J A	48.3 J A	51.0 J A	55.5 J A	31.5 J A	30.6 J A
Zinc	mg/kg	62	83.1 J A	68.2	73.9 J A	59.7	48.7	55.7 J A
Zirconium	mg/kg	4.78 J Z	2.97 J Z	6.32	3.05 J Z	5.59	3.02 J Z	1.50 J Z
Calcium	mg/kg	11200	11400 J E	5480	20800 J E	14300 J FD	8290	3480 J E
Phosphorus	mg/kg	300	864	399	840	187	358	348
Selenium	mg/kg	0.0647 J Z	0.230 J Z	0.233 J Z	0.194 J Z	0.0883 J FD, Z	0.423 U	0.125 J Z
Chromium VI	mg/kg	3.1	1.0 U	0.44 J Z	1.1 U	0.24 J FD, Z	1.1 U	0.41 J Z
Perchlorate (314.0)	ug/kg	32.9 U	32.3 U	32.9 U	31.3 U	33.5 U	32.4 U	30.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	8.8	7.2	8.9	4.1	10.5	7.4	2.2
pH	pH unit	8.17	7.56	6.89	7.44	7.87	8.33	6.52

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292	DE292
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ FD	1.1 U	0.94 J Z	4.8	1.1 UJ Q	3	5.4
Aluminum	mg/kg	11500	20400	21100	22800	25600	20200	20700
Iron	mg/kg	22700	27100	26000	27500	31400	23300	24800
Lead	mg/kg	5.09 J A	23.0 J A	11.2 J A	11.4 J A	12.8 J A	9.62 J A	12.6 J A
Lithium	mg/kg	23.1	20.6	21.3	25	23.9	22.3	22.9
Magnesium	mg/kg	4390	7010	7170	6900	7600	6240	6190
Manganese	mg/kg	321	395	357	394	375	403	390
Mercury	mg/kg	0.0985 U	0.104 U B	0.104 U	0.105 U	0.0199 J Z	0.109 U	0.0107 J Z
Molybdenum	mg/kg	0.104 U B	0.427	0.111 U B	0.109 U B	0.383	0.108 U B	0.68
Nickel	mg/kg	8.55	16.5 J A	20.5	22.7	16.2 J A	20.5	28.5
Potassium	mg/kg	2470	5050	3670	3140	5560	3220	2500
Silver	mg/kg	0.104 U	0.0311 J Z	0.0273 J Z	0.0297 J Z	0.0342 J Z	0.0356 J Z	0.0276 J Z
Sodium	mg/kg	63.9 J Z	115	113	142	95.7 J Z	200	368
Strontium	mg/kg	7.27	135	128	91	58.9	98.9	92.6
Thallium	mg/kg	0.288	0.273	0.285	0.302	0.262	0.324	0.383
Tin	mg/kg	10.5 U B	10.4 U B	11.2 U B	11.0 U B	10.6 U B	10.9 U B	10.8 U B
Titanium	mg/kg	1190	1010	922	1020	1100	932	1030
Antimony	mg/kg	0.208 UJ Q	0.182 J Q, Z	0.135 J Q, Z	0.151 J Q, Z	0.105 J Q, Z	0.128 J Q, Z	0.150 J Q, Z
Arsenic	mg/kg	6.63 J Q	5.97 J Q	7.01 J Q	7.19 J Q	5.44 J Q	6.28 J Q	8.32 J Q
Beryllium	mg/kg	0.599	0.581 J Q	0.83	0.857	0.562 J Q	0.906	0.967
Barium	mg/kg	87.0 J A	79.5 J A	90.2 J A	99.0 J A	88.1 J A	107 J A	189 J A
Boron	mg/kg	5.26 U	9.51	8.36	6.8	10.4	7.84	6.42
Cadmium	mg/kg	0.0592 J FD, Z	0.346	0.322	0.35	0.357	0.33	0.472
Chromium	mg/kg	13.9 J A	27.1 J Q, A	33.5 J A	36.8 J A	31.0 J Q, A	36.0 J A	45.7 J A
Cobalt	mg/kg	7.70 J A	8.63 J A	10.2 J A	12.7 J A	7.51 J A	10.5 J A	14.7 J A
Copper	mg/kg	7.4	18.0 J A	21.2	20.3	15.9 J A	17.2	22.8
Vanadium	mg/kg	31.6 J Q, A	44.8 J A	56.9 J Q, A	61.9 J Q, A	51.1 J A	61.7 J Q, A	78.9 J Q, A
Zinc	mg/kg	67.2 J A	63.1 J A	61.3 J A	65.6 J A	61.2 J A	60.6 J A	74.5 J A
Zirconium	mg/kg	2.17 J Z	3.21 J Z	4.69 J Z	5.66	3.92 J Z	4.14 J Z	6.18
Calcium	mg/kg	3680 J E	109000 J E	101000 J E	80900 J E	48700 J E	116000 J E	117000 J E
Phosphorus	mg/kg	472	544	576	432	706	502	396
Selenium	mg/kg	0.107 J Z	0.235 J Z	0.217 J Z	0.206 J Z	0.201 J Z	0.206 J Z	0.256 J Z
Chromium VI	mg/kg	1.1 U	0.73 J Z	0.32 J Z	0.24 J Z	0.77 J Z	0.28 J Z	0.26 J Z
Perchlorate (314.0)	ug/kg	31.6 U	32.2 U	33.9 U	33.4 U	32.1 U	33.6 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	--	--	--	--
Percent Moisture	%	5	6.8	11.5	10.2	6.6	10.6	10.2
pH	pH unit	7.91	7.29	8.38	8.37	7.61	8.45	8.66

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DE259	DE291	DE291	DE259	DE291	DE291	DE258
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 J Q	1.7	2.5	0.92 J Q, Z	1.8	5.6	0.99 J Q, Z
Aluminum	mg/kg	20600	21700	28300	23800	25900	19300	19800
Iron	mg/kg	23300	29000	38800	25200	33500	25200	25200
Lead	mg/kg	11.9 J A	11.6 J E, Q	12.6 J E, Q	16.7 J A	26.8 J E, Q	9.32 J E, Q	16.7 J A
Lithium	mg/kg	22.4	31.8	43.9	23.1	34.1	26.7	25.5
Magnesium	mg/kg	6650	8070	10900	7060	9040	6940	6680
Manganese	mg/kg	285	298	303	347	319	247	330
Mercury	mg/kg	0.0281 J Z	0.0080 J Z	0.105 U	0.0248 J Z	0.107 U	0.108 U	0.0193 J Z
Molybdenum	mg/kg	0.311	0.358 J E, Q	0.453 J E, Q	0.399	0.108 UJ E, B, Q	0.109 UJ E, B, Q	0.324 J Q
Nickel	mg/kg	15.2 J A	20.6 J Q, E	22.6 J Q, E	17.5 J A	44.6 J Q, E	18.7 J Q, E	18.9 J Q
Potassium	mg/kg	4270	2680	4210	5120	4040	3320	4220 J Q
Silver	mg/kg	0.0264 J Z	0.0190 J Q, E, Z	0.113 UJ E	0.0485 J Z	0.0463 J Q, E, Z	0.0276 J Q, E, Z	0.104 UJ B, Q
Sodium	mg/kg	112	106 J Z	149	94.3 J Z	138	212	104 J Z
Strontium	mg/kg	138	121	101	96.3	128	172	106
Thallium	mg/kg	0.243	0.328 J Q, E	0.414 J Q, E	0.289	0.760 J Q, E	0.287 J Q, E	0.330 J Q
Tin	mg/kg	10.4 U B	11.0 U B	11.3 U B	10.2 U B	11.0 U B	10.9 U B	10.5 U B
Titanium	mg/kg	1020	947	1290	1200	1290	822	980
Antimony	mg/kg	0.120 J Q, Z	0.223 UJ Q	0.225 UJ B, Q	0.134 J Q, Z	0.216 UJ B, Q	0.217 UJ B, Q	0.113 J Q, Z
Arsenic	mg/kg	6.00 J Q	6.96 J Q, E	8.39 J Q, E	6.80 J Q	14.7 J Q, E	5.97 J Q, E	6.35 J E, Q
Beryllium	mg/kg	0.547 J Q	0.759 J Q, E	0.816 J Q, E	0.617 J Q	1.14 J Q, E	0.677 J Q, E	0.684
Barium	mg/kg	73.7 J A	88.3 J E	110 J E	87.5 J A	130 J E	98.0 J E	98.8 J A
Boron	mg/kg	7.64	9.6	13	10.6	11.3	9.4	11.2
Cadmium	mg/kg	0.324	0.255 J Q, E	0.178 J Q, E	0.384	0.326 J Q, E	0.293 J Q, E	0.263 J Q
Chromium	mg/kg	34.0 J Q, A	32.3 J Q, E, A	32.6 J Q, E, A	31.4 J Q, A	57.9 J Q, E, A	39.3 J Q, E, A	34.8 J Q
Cobalt	mg/kg	7.64 J A	11.6 J Q, E, A	14.1 J Q, E, A	8.67 J A	22.6 J Q, E, A	8.87 J Q, E, A	9.74 J Q, A
Copper	mg/kg	14.8 J A	22.7 J E, Q	28.7 J E, Q	15.8 J A	59.0 J E, Q	15.2 J E, Q	18.4 J E, Q
Vanadium	mg/kg	53.2 J A	61.3 J Q, E	65.4 J Q, E	53.8 J A	123 J Q, E	65.8 J Q, E	59.0 J E
Zinc	mg/kg	58.8 J A	73.5 J E, A	85.2 J E, A	62.8 J A	186 J E, A	61.2 J E, A	64.6
Zirconium	mg/kg	4.98 J Z	7.88	8.6	2.23 J Z	9.49	6.93	3.31 J Z
Calcium	mg/kg	100000 J E	102000	54300	95500 J E	70400	97900	109000
Phosphorus	mg/kg	489	444 J Q	500 J Q	642	608 J Q	437 J Q	500
Selenium	mg/kg	0.249 J Z	0.445 UJ B, Q	0.450 UJ B, Q	0.266 J Z	0.433 UJ B, Q	0.453 J Q	0.631
Chromium VI	mg/kg	0.82 J Z	0.63 J Z	1.5	0.34 J Z	0.32 J Z	0.28 J Z	0.73 J Z
Perchlorate (314.0)	ug/kg	31.8 U	33.7 U	34.1 U	31.8 U	34.1 U	33.2 U	31.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	11.1	12	5.8	12	9.7	4.4
pH	pH unit	7.64	8.36	8.35	7.59	8.4	8.52	7.6

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DE287	DE287
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
Fluoride	mg/kg	1.0 J Q, Z	1.3 J Q
Aluminum	mg/kg	14300	18700
Iron	mg/kg	20800 J Q	30500 J Q
Lead	mg/kg	6.58 J Q, A	10.7 J Q, A
Lithium	mg/kg	21.5	30
Magnesium	mg/kg	5150	6500
Manganese	mg/kg	296	246
Mercury	mg/kg	0.106 U	0.0106 J Z
Molybdenum	mg/kg	0.112 U B	0.109 U B
Nickel	mg/kg	14.3 J Q, A	23.4 J Q, A
Potassium	mg/kg	2800 J Q	3350 J Q
Silver	mg/kg	0.112 U	0.0176 J Z
Sodium	mg/kg	123	123
Strontium	mg/kg	128	122
Thallium	mg/kg	0.267	0.409
Tin	mg/kg	10.9 U B	11.0 U B
Titanium	mg/kg	518	624
Antimony	mg/kg	0.225 UJ Q	0.0969 J Q, Z
Arsenic	mg/kg	5.01 J Q	8.53 J Q
Beryllium	mg/kg	0.629	0.844
Barium	mg/kg	67.0 J E, A	94.0 J E, A
Boron	mg/kg	11.8	13.1
Cadmium	mg/kg	0.205	0.336
Chromium	mg/kg	31.7 J Q, A	40.5 J Q, A
Cobalt	mg/kg	7.51 J A	15.6 J A
Copper	mg/kg	10.1	13.1
Vanadium	mg/kg	44.8 J A	65.1 J A
Zinc	mg/kg	44.2	67.1
Zirconium	mg/kg	4.81 J Z	5.54
Calcium	mg/kg	109000	92400
Phosphorus	mg/kg	397	462
Selenium	mg/kg	0.192 J Z	0.217 J Z
Chromium VI	mg/kg	0.47 J Z	0.43 J Z
Perchlorate (314.0)	ug/kg	33.7 U	34.4 U
Perchlorate (6850)	ug/kg	--	--
Percent Moisture	%	11	12.7
pH	pH unit	8.71	7.33

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DX147	DX155	DX147	DX147	DX155	DX147	DX155
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.06 U	0.0547 J Z	1.02 U	1.02 U	0.0502 J Z	1.03 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.28 U B	5.58 U B	0.163 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
OCDD	ng/kg	19.3	11.2 U B	18.7	5.28 J Z	11.1 U B	30	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.77 J Z	5.58 U B	2.71 J Z	5.09 U B	5.53 U B	2.29 J Z	5.62 U B
OCDF	ng/kg	1.15 J Z	11.2 U B	10.2 U B	10.2 U B	11.1 U B	10.3 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0733 J Z	5.58 U B	0.0692 J Z	0.0315 J Z	5.53 U	0.0397 J Z	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	0.0599 J Z	0.0784 J Z	0.0765 J Z	0.0587 J Z	5.53 U	0.0474 J Z	5.62 U
2,3,7,8-TCDF	ng/kg	1.06 U B	0.0395 J Z	0.196 J Z	1.02 U	1.11 U	1.03 U B	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	0.381 J Z	5.58 U B	0.317 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	0.133 J Z	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.592 J Z	5.58 U B	0.574 J Z	5.09 U B	5.53 U B	0.474 J Z	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.288 J Z	5.58 U B	0.220 J Z	0.0398 J Z	5.53 U B	0.0598 J Z	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U B	5.62 U B
Aroclor 1260	ug/kg	2.2	1.9 U	1.8 UJ FD	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1254	ug/kg	3.2	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	2.8 J Z	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	0.49 J Z	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DX145	DX155	DX145	DX155	DX155	DX145	DX155
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0366 J Z	1.07 U	1.04 U	0.0695 J Z	1.07 U	0.0495 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.269 J Z	5.36 U	0.164 J Z	5.45 U B	5.35 U B	0.296 J Z	5.65 U B
OCDD	ng/kg	32	10.7 U B	18	10.9 U B	10.7 U B	35.5	3.28 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	4.59 J Z	5.36 U B	2.62 J Z	5.45 U B	5.35 U B	5.41	5.65 U B
OCDF	ng/kg	1.84 J Z	10.7 U B	10.4 U B	10.9 U B	10.7 U B	1.93 J Z	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.148 J Z	5.36 U	0.0738 J Z	5.45 U B	5.35 U B	0.115 J Z	5.65 U B
1,2,3,7,8-PeCDD	ng/kg	0.118 J Z	5.36 U	0.0440 J Z	0.0806 J Z	5.35 U	0.187 J Z	0.0375 J Z
2,3,7,8-TCDF	ng/kg	0.658 J Z	1.07 U	0.173 J Z	0.0375 J Z	1.07 U	0.851 J Z	0.0471 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
2,3,4,7,8-PeCDF	ng/kg	1.64 J Z	5.36 U B	0.403 J Z	5.45 U B	5.35 U B	1.10 J Z	5.65 U B
1,2,3,7,8-PeCDF	ng/kg	0.222 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.271 J Z	5.65 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.304 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.430 J Z	5.65 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.32 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	1.31 J Z	5.65 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.474 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.449 J Z	5.65 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U
Aroclor 1260	ug/kg	2.4	1.8 U	1.8 U	1.9 U	1.8 U	3.3	2.0 U
Aroclor 1254	ug/kg	3.6	1.8 U	1.8 U	1.9 U	1.8 U	5.4	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	3.2 J Z	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	5.5	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DX155	DX145	DX155	DX145	DX155	DX147	DX155
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.12 U	1.06 U	1.11 U	1.05 U	1.10 U	1.03 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	5.60 U B	0.268 J Z	5.55 U B	0.202 J Z	5.52 U B	0.289 J Z	5.35 U B
OCDD	ng/kg	11.2 U B	43.9	11.1 U B	26.4	11.0 U B	14.2	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.60 U B	5.79	5.55 U B	3.22 J Z	5.52 U B	2.17 J Z	5.35 U B
OCDF	ng/kg	11.2 U B	1.89 J Z	11.1 U B	1.62 J Z	11.0 U B	1.27 J Z	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.60 U B	0.109 J Z	5.55 U B	0.141 J Z	5.52 U B	0.224 J Z	5.35 U
1,2,3,7,8-PeCDD	ng/kg	5.60 U	0.124 J Z	5.55 U	0.0769 J Z	0.0619 J Z	0.188 J Z	5.35 U
2,3,7,8-TCDF	ng/kg	0.0390 J Z	0.451 J Z	0.0609 J Z	0.195 J Z	0.0343 J Z	1.03 U B	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.211 J Z	5.35 U B
2,3,4,7,8-PeCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.601 J Z	5.35 U
1,2,3,7,8-PeCDF	ng/kg	5.60 U	0.167 J Z	5.55 U B	0.144 J Z	5.52 U B	0.268 J Z	5.35 U
1,2,3,6,7,8-HxCDF	ng/kg	5.60 U	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.372 J Z	5.35 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.60 U	0.320 J Z	5.55 U B	5.27 U B	5.52 U	0.253 J Z	5.35 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.311 J Z	5.35 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.60 U B	1.21 J Z	5.55 U B	5.27 U B	5.52 U B	0.756 J Z	5.35 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.438 J Z	5.35 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U	5.27 U B	5.52 U B	0.222 J Z	5.35 U B
Aroclor 1260	ug/kg	2.0 U	1.8 U	1.9 U	2.2	1.9 U	1.6 J Z	1.8 U
Aroclor 1254	ug/kg	2.0 U	1.8 U	1.9 U	14	1.9 U	1.5 J Z	1.8 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5460	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	2.4 J Z	3.7 U	2.5 J Z	3.6 UJ E
Aroclor 1232	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5442	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E
Aroclor 1248	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5432	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX147	DX152	DX152	DX147	DX152	DX152	DX145
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U	1.06 U B	1.08 U B	1.03 U	0.0439 J Z	1.10 U	0.0659 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.210 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.350 J Z
OCDD	ng/kg	64.7	10.6 U B	10.8 U B	86.6	10.8 U B	11.0 U B	21.4
1,2,3,4,6,7,8-HpCDD	ng/kg	6.2	5.28 U B	5.40 U B	5.08 J Z	5.39 U B	5.48 U B	3.04 J Z
OCDF	ng/kg	1.33 J Z	10.6 U B	10.8 U B	10.3 U B	10.8 U B	11.0 U B	1.31 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.194 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.0844 J Z
1,2,3,7,8-PeCDD	ng/kg	0.164 J Z	5.28 U B	5.40 U B	5.14 U B	0.142 J Z	5.48 U B	0.140 J Z
2,3,7,8-TCDF	ng/kg	1.04 U B	1.06 U B	1.08 U B	0.0580 J Z	0.0507 J Z	1.10 U B	0.498 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	0.0393 J Z	5.48 U B	5.14 U B
2,3,4,7,8-PeCDF	ng/kg	0.409 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.640 J Z
1,2,3,7,8-PeCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.590 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.172 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.247 J Z	5.28 U B	5.40 U B	0.169 J Z	5.39 U B	5.48 U B	0.267 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.690 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.417 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.20 U	5.28 U B	5.40 U B	0.0687 J Z	5.39 U B	5.48 U B	5.14 U B
Aroclor 1260	ug/kg	2	1.8 U	1.9 U	0.55 J Z	1.8 U	1.9 U	2.8
Aroclor 1254	ug/kg	1.4 J Z	1.8 U	1.9 U	1.8 U	0.59 J L, Z	1.9 U	6.8
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	1.4 J Z	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	1.4 J Z
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.1 J Z
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX150	DX145	DX152	DX145	DX152	DX152	DX145
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	0.0382 J Z	1.06 U	1.02 U	1.11 U	1.07 U	1.02 U
1,2,3,7,8,9-HxCDD	ng/kg	5.44 U B	0.343 J Z	5.31 U B	0.278 J Z	5.56 UJ FD	5.34 U B	0.0989 J Z
OCDD	ng/kg	10.9 U B	34.3	10.6 U B	36.1	11.1 UJ B, FD	10.7 U B	9.43 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.44 U B	4.94 J Z	5.31 U B	4.00 J Z	5.56 U B	5.34 U B	1.64 J Z
OCDF	ng/kg	10.9 U B	2.14 J Z	10.6 U B	2.24 J Z	11.1 U B	10.7 U B	10.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.44 U B	0.123 J Z	5.31 U	0.102 J Z	5.56 UJ B, FD	5.34 U B	0.0545 J Z
1,2,3,7,8-PeCDD	ng/kg	5.44 U	0.139 J Z	5.31 U	0.0931 J Z	5.56 UJ FD	5.34 U B	0.0518 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	0.699 J Z	1.06 U	9.38	1.11 U	1.07 U	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.617 J Z	5.56 U B	5.34 U B	5.08 U B
2,3,4,7,8-PeCDF	ng/kg	5.44 U B	0.350 J Z	5.31 U B	5.72	5.56 U B	5.34 U B	0.361 J Z
1,2,3,7,8-PeCDF	ng/kg	5.44 U B	0.326 J Z	5.31 U B	8.38	5.56 UJ FD	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.44 U B	0.316 J Z	5.31 U B	1.61 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.44 U	0.345 J Z	5.31 U B	0.274 J Z	5.56 UJ FD	5.34 U B	5.08 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.44 U B	0.450 J Z	5.31 U B	1.40 J Z	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.44 U B	1.12 J Z	5.31 U B	1.50 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.0636 J Z	0.488 J Z	5.31 U B	6.21	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.718 J Z	5.56 UJ FD	5.34 U B	5.08 U B
Aroclor 1260	ug/kg	1.9 U	6.4	1.9 U	220	0.80 J FD, S, L, Z	1.1 J S, L, Z	1.7 U
Aroclor 1254	ug/kg	1.9 U	8.9	1.9 U	1500	1.9 J FD, S, L	5.5 J S, L	1.7 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 UJ E	2.3 J Z	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1248	ug/kg	1.9 U	1.5 J Z	1.9 U	500	0.51 J FD, S, L, Z	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DX157	DX145	DX157	DX157	DX145	DX157	DX157
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U B	1.06 U	1.12 U B	1.08 U B	0.0343 J Z	1.11 U B	1.09 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.25 U B	0.141 J Z	5.62 U B	5.41 U B	0.257 J Z	5.55 U B	5.46 U B
OCDD	ng/kg	10.5 U B	18.9	2.43 J Z	10.8 U B	37.9	11.1 U B	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.25 U B	3.16 J Z	5.62 U B	5.41 U B	4.66 J Z	5.55 U B	5.46 U B
OCDF	ng/kg	10.5 U B	1.32 J Z	11.2 U B	10.8 U B	2.83 J Z	11.1 U B	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.25 U B	0.0740 J Z	5.62 U B	5.41 U B	0.0810 J Z	5.55 U B	5.46 U B
1,2,3,7,8-PeCDD	ng/kg	5.25 U B	0.0673 J Z	5.62 U B	5.41 U B	0.0549 J Z	5.55 U B	5.46 U B
2,3,7,8-TCDF	ng/kg	1.05 UJ FD	0.344 J Z	1.12 U B	1.08 U	0.219 J Z	1.11 U B	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
2,3,4,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	0.255 J Z	5.55 U B	5.46 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	1.17 J Z	5.55 U B	5.46 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
Aroclor 1260	ug/kg	1.8 U	2.2	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	2.4 J Z	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DX146	DX156	DX156	DX146	DX156	DX156	DX147
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U	1.10 U B	1.08 U B	0.0466 J Z	1.12 U B	1.10 U B	0.0482 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.153 J Z	5.51 U B	5.41 U B	0.333 J Z	5.60 U B	5.48 U B	5.00 U B
OCDD	ng/kg	25.7	11.0 U B	10.8 U B	40.2	11.2 U B	11.0 U B	27.7
1,2,3,4,6,7,8-HpCDD	ng/kg	3.60 J Z	5.51 U B	5.41 U B	5.75	5.60 U B	5.48 U B	3.94 J Z
OCDF	ng/kg	1.23 J Z	11.0 U B	10.8 U B	1.63 J Z	11.2 U B	11.0 U B	10.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0991 J Z	5.51 U B	5.41 U B	0.128 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDD	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,7,8-TCDF	ng/kg	0.128 J Z	1.10 U B	1.08 U B	0.474 J Z	1.12 U B	1.10 U B	0.282 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,4,7,8-PeCDF	ng/kg	0.165 J Z	5.51 U B	5.41 U B	5.25 U	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDF	ng/kg	0.0992 J Z	5.51 U B	5.41 U B	0.116 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.182 J Z	5.51 U B	5.41 U B	0.310 J Z	5.60 U B	5.48 U B	0.225 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.183 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.777 J Z	5.51 U B	5.41 U B	1.01 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.186 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.26 U	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	0.0642 J Z
Aroclor 1260	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1254	ug/kg	1.3 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5460	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DX155	DX155
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
2,3,7,8-TCDD	ng/kg	1.10 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U	5.62 U B
OCDD	ng/kg	11.0 U B	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.52 U B	5.62 U B
OCDF	ng/kg	11.0 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	5.52 U	5.62 U
2,3,7,8-TCDF	ng/kg	1.10 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U B	5.62 U B
Aroclor 1260	ug/kg	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1232	ug/kg	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1248	ug/kg	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ E	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-007-SA8S-SS-0.0-0.5	SL-008-SA8S-SS-0.0-0.5	SL-009-SA8S-SS-0.0-0.5	SL-010-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011	09/30/2011
SDG		DE258	DE258	DE258	DE258	DE259	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 UJ L	1.2 R Q, L	1.2 UJ L	1.3 UJ L	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.5 U	9.3 R Q	9.2 U	9.4 U	9.6 R Q	9.5 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R Q, L	2.5 R L	2.5 R L	2.6 R Q, L	2.5 R L	2.6 R L
MCPP	ug/kg	270 UJ L	280 J FD, L	260 UJ L	260 UJ L	190 J Z	110 J Z	270 U
2,4,5-TP	ug/kg	0.18 UJ L	0.18 UJ Q, L	0.17 UJ L	0.18 UJ L	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg	0.28 U	0.18 U	0.22	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	1900 J L	260 UJ L	260 UJ L	260 UJ L	270 U	320	270 U
2,4-D	ug/kg	3.8 U	3.7 U	3.7 U	3.8 U	3.9 U	3.8 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.8 UJ FD	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	7.0 UJ H	7.2 UJ H	6.8 UJ H	6.9 UJ H	17	4.7 J Z	8.1 U
Heptachlor Epoxide	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Mirex	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Aldrin	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.44 J H, S	0.059 J H, Z	0.17 UJ H	0.045 J H, Z	0.54 U	0.040 J Z	0.52
Endosulfan II	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDT	ug/kg	0.82 J H, S	0.42 UJ H	0.35 UJ H	0.35 UJ H	4.9	0.69	3.2 J Z
Endrin Ketone	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Chlordane	ug/kg	1.5 J H, S, Z	3.5 UJ H, FD	3.5 UJ H	1.9 J H, Z	6	2.3 J Z	4.2
Gamma-BHC (Lindane)	ug/kg	0.072 J H, S, Z	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Endrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Methoxychlor	ug/kg	1.8 UJ H	1.7 UJ H	1.7 UJ H	1.7 UJ H	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.52 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDE	ug/kg	0.85 J H, S	0.48 J H	0.35 UJ H	0.35 UJ H	8.8	0.44	5.4
Endrin Aldehyde	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.63 U	0.36 U	0.36 U
Heptachlor	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A9
Pesticides - Validated Data
HSA-8S

Sample Name		SL-011-SA8S-SS-0.0-0.5	SL-012-SA8S-SS-0.0-0.5	SL-013-SA8S-SS-0.0-0.5	SL-014-SA8S-SS-0.0-0.5	SL-015-SA8S-SS-0.0-0.5	SL-016-SA8S-SS-0.0-0.5	SL-017-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011
SDG		DE259	DE259	DE258	DE258	DE258	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.2 UJ L	1.2 UJ L	1.2 UJ L	1.2 U	0.45 J Z
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U	9.6 U	9.3 U	9.4 U	9.4 U	9.4 U	9.7 U
Dinitrobutyl Phenol	ug/kg	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.6 R L
MCPP	ug/kg	270 U	270 U	260 UJ L	260 UJ L	260 UJ L	260 U	270 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.26 J L	0.21 J L	0.18 UJ L	0.18 U	0.18 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	340 U	270 U	380 J L	260 UJ L	260 UJ L	1600	270 U
2,4-D	ug/kg	3.8 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.4 J Z	1.4 J Z	0.94 J Z	1.8	1.8 U	1.8 U
Toxaphene	ug/kg	9.4 U	13 U	6.8 UJ H	6.9 UJ H	6.9 UJ H	13 U	7.1 U
Heptachlor Epoxide	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.11 J Z	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Mirex	ug/kg	0.36 U	0.46 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.55 U	0.37 U
Aldrin	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Delta-BHC	ug/kg	0.18 U	1.4 U	0.17 UJ H	0.054 J H, Z	0.20 J H	0.5	0.18 U
Endosulfan II	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDT	ug/kg	1.8	1.8	1.9 J H	0.80 J H	0.29 J H, Z	2.1	4.6
Endrin Ketone	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Chlordane	ug/kg	4	1.6 J Z	2.7 J H, Z	2.4 J H, Z	1.9 J H, Z	1.3 J Z	1.2 J S, Z
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.060 J H, Z	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Dieldrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.33 J Z	0.37 U
Endrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Methoxychlor	ug/kg	1.8 U	2.2 U	1.7 UJ H	1.7 UJ H	1.7 UJ H	2.0 U	1.8 U
4,4'-DDD	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDE	ug/kg	2.8	2.2	1.1 J H	1.1 J H	0.57 J H	2	3.9
Endrin Aldehyde	ug/kg	1.2 U	1.2 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.80 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.12 J Z	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA8S-SS-0.0-0.5	SL-019-SA8S-SS-0.0-0.5	SL-020-SA8S-SS-0.0-0.5	SL-021-SA8S-SS-0.0-0.5	SL-022-SA8S-SS-0.0-0.5	SL-023-SA8S-SS-0.0-0.5	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/29/2011
SDG		DE259	DE259	DE259	DE259	DE259	DE259	DE258
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	0.61 J Z	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ L
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.6 U	9.6 U	9.5 U	9.6 U	9.4 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L
MCPP	ug/kg	260 U	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.20 J L
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	300	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4-D	ug/kg	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.8 U
2,4 DB	ug/kg	1.8 U	4	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	140 U	20 U	7.1 U	15 U	42 U	70 U	6.9 UJ H
Heptachlor Epoxide	ug/kg	9.6 U	0.17 U	0.18 U	0.18 U	0.18 U	0.40 J Z	0.17 UJ H
Endosulfan Sulfate	ug/kg	7.1 U	3.5 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Mirex	ug/kg	7.1 U	0.35 U	0.36 U	0.40 U	0.51 U	3.6 U	0.36 UJ H
Aldrin	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Alpha-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Beta-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Delta-BHC	ug/kg	3.5 U	1.3 U	0.72	1.7	1.2 U	12	0.17 UJ H
Endosulfan II	ug/kg	12 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDT	ug/kg	74 U	2.0 J S	1.1	1	1.9	3.0 J Z	0.94 J H
Endrin Ketone	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.34 U	3.6 U	0.36 UJ H
Chlordane	ug/kg	71 U	2.7 J S, Z	3.6 U	3.7	3.6	36 U	2.9 J H, Z
Gamma-BHC (Lindane)	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Dieldrin	ug/kg	25 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Endrin	ug/kg	8.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Methoxychlor	ug/kg	35 U	1.7 U	1.8 U	1.8 U	2.1 U	18 U	1.7 UJ H
4,4'-DDD	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDE	ug/kg	59 U	1.6 J S	1	1.4	2	4.3	0.62 J H
Endrin Aldehyde	ug/kg	7.1 U	0.99 U	0.40 U	0.69 U	2.2 U	3.7 U	0.36 UJ H
Heptachlor	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Endosulfan I	ug/kg	3.5 U	0.27 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 UJ Q
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Nitrophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chloroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Phenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	20 U	19 U B	18 U B	20 U	19 U	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Dimethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Benzo(g,h,i)perylene	ug/kg	1.8 U B	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(b)fluoranthene	ug/kg	3.8	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(k)fluoranthene	ug/kg	0.72 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Chrysene	ug/kg	1.1 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzo(a)pyrene	ug/kg	0.87 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 R Q	1000 U	1100 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Benzoic Acid	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Isophorone	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Acenaphthene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	16 J Z	20 U	20	18 U	20 U	20	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Carbazole	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Pentachlorophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	340 U	340 U	370 U	350 U	380 U
Benzidine	ug/kg	3500 U	3700 U	3400 R Q	3400 U	3700 U	3500 U	3800 UJ Q
2-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2-Chlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzyl Alcohol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 UJ Q
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	16 J Z	19 U B	20 U	6.8 J Z	19 U B	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.2	1.8 U	1.4 J Z	1.9 U	1.8 U	3.8	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	0.80 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.2 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.97 J Z	1.9 U
Benzo(b)fluoranthene	ug/kg	2.5	1.8 U	0.93 J Z	1.9 U	1.8 U	3.4	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	19 J Z	--
Fluoranthene (8270C SIM)	ug/kg	3.3	1.8 U	1.7 J Z	1.9 U	1.8 U	--	1.9 U
Benzo(k)fluoranthene	ug/kg	7.9	1.8 U	2.6	1.9 U	1.8 U	10	1.9 U
Acenaphthylene	ug/kg	0.48 J Z	1.8 U	1.8 U	1.9 U	1.8 U	0.37 J Z	1.9 U
Chrysene	ug/kg	2.7	1.8 U	1.0 J Z	1.9 U	1.8 U	3.9	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.5 J Z	1.8 U	0.75 J Z	1.9 U	1.8 U	1.8	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.0 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.3 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Benzoic Acid	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J Z	1.8 U	0.92 J Z	1.9 U	1.8 U	2.8	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	11 J Z	10 J Z	6.4 J Z	20 U	19 U	47	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Fluorene	ug/kg	0.84 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.95 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	350 U	380 U	360 U	360 U	380 U
Benzidine	ug/kg	3500 R Q	3600 U	3500 U	3800 U	3600 U	3600 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitrophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	20 J Z	23 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	19 U B	7.0 J Z	--	--	18 U B	19 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Anthracene	ug/kg	1.9 U	0.56 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	0.80 J Z	1.8 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(g,h,i)perylene	ug/kg	1.9 U	1.8	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.2 J Z	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Benzo(b)fluoranthene	ug/kg	1.9 U	8.6	1.8 U	0.97 J Z	1.8 U	5.3	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	12	1.8 U	1.8 U	1.8 U	1.3 J Z	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.6 J Z	1.8 U	1.8 U	1.8 U	0.41 J Z	1.8 U
Chrysene	ug/kg	1.9 U	18	1.8 U	1.8 U	1.8 U	0.89 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(a)pyrene	ug/kg	1.9 U	6.2	1.8 U	1.8 U	1.8 U	1.7	1.8 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.5 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	13	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Benzoic Acid	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Acenaphthene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	3.4	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	210	20 U	31	23	27	13 J Z
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Fluorene	ug/kg	1.9 U	2	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pentachlorophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.9 U	0.93 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	350 U	370 U	360 U	370 U	340 U	350 U
Benzidine	ug/kg	3800 U	3500 U	3700 U	3600 U	3700 U	3400 U	3500 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzyl Alcohol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitrophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Phenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	30 J Z
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	36 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	19 U	30	19 UJ S	19 U	20 U	--
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	44	19 UJ S	9.1 J Z	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Anthracene	ug/kg	0.42 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.8	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.1 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(b)fluoranthene	ug/kg	16	1.8 U	1.8 U	1.4 J S, Z	1.8 U	1.9 U	1.3 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.6	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7
Benzo(k)fluoranthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	4.7
Acenaphthylene	ug/kg	0.78 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Chrysene	ug/kg	2.7	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.6 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(a)pyrene	ug/kg	3.3	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(a)anthracene	ug/kg	4	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Aniline	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Benzoic Acid	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Isophorone	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	8.0 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.6 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	0.73 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	47	19 U	20 U	8.6 J S, Z	19 U	20 U	26
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Fluorene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Carbazole	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pentachlorophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U
Naphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	370 U	350 U	350 U	370 U	350 U
Benzidine	ug/kg	3500 U	3600 U	3700 U	3500 U	3500 U	3700 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzyl Alcohol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	230 J Z
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	27 J Z	--	21 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.5 J Z	--	34	--	20 U	14 J Z	18 U B
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	50	19 U	20 U	19 U	18 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.91 J Z	1.9 U	1.8 U	1.3 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	0.82 J Z	0.95 J Z	1.9 U	1.8 U	0.84 J Z
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	0.87 J Z	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.0 J Z	0.99 J Z	1.9 U	1.8 U	5.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.6 J Z	1.9 U	1.8 U	3
Benzo(k)fluoranthene	ug/kg	1.8 U	2	1.8 U	5	1.9 U	1.8 U	1.7 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	0.52 J Z
Chrysene	ug/kg	1.8 U	0.46 J Z	1.8 U	1.6 J Z	1.9 U	1.8 U	3.9
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.6 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.2 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Aniline	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Benzoic Acid	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Isophorone	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Di-n-Butylphthalate	ug/kg	8.2 J Z	19 U	20 U	19 U	20 U	19 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.88 J Z	1.9 U	1.8 U	0.81 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	210
Butylbenzylphthalate (8270C SIM)	ug/kg	13 J Z	19 U	20 U	19 U	20 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Fluorene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.1 J Z
Carbazole	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	0.75 J Z	1.9 U	1.8 U	1.7 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	340 U	370 U	350 U	340 U
Benzidine	ug/kg	3600 U	3600 U	3600 U	3400 U	3700 UJ Q	3500 U	3400 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	19 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	300 J S	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	35 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	6.8 J S	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.3 J Z	1.9 U	1.8 U	1.3 J S, Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.79 J Z	1.9 U	1.8 U	0.84 J S, Z	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.2 J Z	1.9 U	1.8 U	8.1 J S	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	49 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.5 J Z	--	1.8 U	14 J S	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	3.3	1.9 U	1.8 U	33 J S	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	5.5 J S	1.9 U
Chrysene	ug/kg	1.8 U	1.6 J Z	1.9 U	1.8 U	16 J S	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	0.75 J Z	1.9 U	1.8 U	7.6 J S	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	2.2 J S	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	19 J S	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Benzoic Acid	ug/kg	530 R Q	540 U	560 U	560 U	540 U	560 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	52 J Z	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	3.1 J S	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	220	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	220	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	0.74 J Z	1.9 U	1.8 U	5.2 J S	1.9 U
Carbazole	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.0 J S, Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	380 U	370 U	360 U	370 U
Benzidine	ug/kg	3500 R Q	3600 U	3800 U	3700 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U B	20 U	20 U	19 U	7.7 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.4 J Z	1.9 U	1.9 U	1.6 J Z	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	0.51 J Z	1.9 U	1.9 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Benzoic Acid	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	210	--	--	260	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U	350 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U	3500 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
N-Nitrosodimethylamine	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	520 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
Phenol	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	19 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	7.2 J Z	20 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	170 U	190 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	190 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	520 UJ L	560 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
Aniline	ug/kg	550 U	520 U	560 U	570 U
Benzoic Acid	ug/kg	550 U	520 UJ L	560 U	570 U
Hexachloroethane	ug/kg	180 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	520 U	560 U	570 U
Isophorone	ug/kg	180 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	190 U	190 U
Fluorene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	520 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	520 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ Q	1.1 U	1.0 UJ Q	1.0 UJ Q	8.8 J Q	1.1 UJ Q	5.1 J Q
Aluminum	mg/kg	25500	16100	17900	11100	14700	11700	13600
Iron	mg/kg	37700	17700	20900	11100	18800 J Q	13600	21700 J Q
Lead	mg/kg	18.2 J A	7.63	20.8 J A	6.61 J A	9.50 J Q, A	10.9 J A	10.8 J Q, A
Lithium	mg/kg	25.3	17.5	18.5	12.7	15	15.3	16.1
Magnesium	mg/kg	7650	5600 J E	6100	3930	6040	4330	5530
Manganese	mg/kg	337	334	278	167	305	180	382
Mercury	mg/kg	0.0132 J Z	0.105 U	0.0184 J Z	0.0987 U	0.0188 J Z	0.0161 J Z	0.0098 J Z
Molybdenum	mg/kg	0.461 J Q	0.110 U B	0.322 J Q	0.136 J Q	0.111 U B	0.277 J Q	0.112 U B
Nickel	mg/kg	25.7 J Q	15.2	17.1 J Q	9.79 J Q	17.5 J Q, A	13.2 J Q	23.5 J Q, A
Potassium	mg/kg	5170 J Q	3220 J Q	3130 J Q	1460 J Q	2780 J Q	1640 J Q	2580 J Q
Silver	mg/kg	0.102 UJ B, Q	0.110 U	0.101 UJ B, Q	0.102 U	0.111 U	0.104 U	0.112 U
Sodium	mg/kg	118	139 J E	121	120	1030	117	242
Strontium	mg/kg	125	230	156	182	256	142	219
Thallium	mg/kg	0.420 J Q	0.284	0.257 J Q	0.123 J Q	0.22	0.176 J Q	0.244
Tin	mg/kg	10.5 U B	11.0 U B	10.2 U B	10.2 U B	10.8 U B	10.4 U B	11.2 U B
Titanium	mg/kg	1350	871	832	542	620	674	543
Antimony	mg/kg	0.225 J Q	0.219 U	0.206 J Q	0.123 J Q, Z	0.0854 J Q, Z	0.140 J Q, Z	0.103 J Q, Z
Arsenic	mg/kg	8.60 J E, Q	4.88	6.79 J E, Q	4.49 J E, Q	6.98 J Q	4.87 J E, Q	6.29 J Q
Beryllium	mg/kg	0.853	0.66	0.656	0.478	0.568	0.418	0.625
Barium	mg/kg	138 J A	88.9	93.2 J A	82.4 J A	114 J E, A	88.6 J A	84.3 J E, A
Boron	mg/kg	14.5	9.1	11.2	8.92	17.6	9.04	15.3
Cadmium	mg/kg	0.389 J Q	0.394	0.300 J Q	0.232 J Q	0.24	0.225 J Q	0.456
Chromium	mg/kg	47.4 J Q	35.3	29.9 J Q	23.8 J Q	28.5 J Q, A	23.8 J Q	30.7 J Q, A
Cobalt	mg/kg	12.2 J Q, A	8.59	9.60 J Q, A	4.85 J Q, A	8.89 J A	6.87 J Q, A	9.54 J A
Copper	mg/kg	23.5 J E, Q	12.7	18.8 J E, Q	9.34 J Q	14.9	12.6 J Q	15.1
Vanadium	mg/kg	86.2 J E	59.9	51.6 J E	37.4 J E	49.4 J A	38.5 J E	53.0 J A
Zinc	mg/kg	90.9	56.5	55.1	27.9	48.1	34.9	54.5
Zirconium	mg/kg	2.86 J Z	6.08	3.40 J Z	2.30 J Z	4.75 J Z	2.00 J Z	3.96 J Z
Calcium	mg/kg	76800	122000	144000	239000	161000	242000	172000
Phosphorus	mg/kg	638	420	452	228	349	279	282
Selenium	mg/kg	0.489	0.166 J Z	0.252 J Z	0.143 J Z	0.181 J Z	0.213 J Z	0.201 J Z
Chromium VI	mg/kg	0.42 J Z	0.35 J Z	0.41 J Z	1.4	1.1 U	2.2	1.2 U
Perchlorate (314.0)	ug/kg	31.8 U	33.6 U	31.0 U	30.8 U	33.7 U	31.4 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	10.6	3.3	2.7	10.9	4.4	13.4
pH	pH unit	7.43	8.77	7.81	8.13	9.23	8.31	8.7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	--	1.1 U	1.1 U	2.8 J Q	2.5 J Q	1.1 U	1.5
Aluminum	mg/kg	23100	11100	21300	20800	10700	21800	26100
Iron	mg/kg	27000	19000	23000	29000 J Q	14500 J Q	25400	43200
Lead	mg/kg	21.9 J A	5.98 J E	9.34 J A	9.07 J Q, A	8.28 J Q, A	26.1 J A	16.7 J E
Lithium	mg/kg	21	9.8	27.1	31.1	15.7	21.7	34.1
Magnesium	mg/kg	7570	4330	6950	7210	4280	7290	9100
Manganese	mg/kg	386	325 J E	372	271	516	355	303 J E
Mercury	mg/kg	0.0414 J Z	0.107 U	0.104 U B	0.107 U	0.109 U	0.0308 J Z	0.113 U
Molybdenum	mg/kg	0.44	0.106 U B	0.13	0.113 U B	0.105 U B	0.302	0.595
Nickel	mg/kg	19.9 J A	11.7 J E, Q	12.6 J A	17.3 J Q, A	15.3 J Q, A	17.5 J A	25.0 J E, Q
Potassium	mg/kg	5660	2160 J Q	3680	3580 J Q	2270 J Q	5340	3920 J Q
Silver	mg/kg	0.0303 J Z	0.106 U	0.104 U	0.0229 J Z	0.0191 J Z	0.107 U	0.0281 J Z
Sodium	mg/kg	108	128	114	180	155	117	136
Strontium	mg/kg	108	212	121	100	166	134	93.1
Thallium	mg/kg	0.339	0.106 UJ E, B, Q	0.224	0.293	0.254	0.225	0.448 J E, Q
Tin	mg/kg	10.7 U B	10.8 U B	10.4 U B	11.0 U B	10.8 U B	10.7 U B	11.2 U B
Titanium	mg/kg	1020 J L	478	870	631	374	971	1080
Antimony	mg/kg	0.192 J Q, Z	0.120 J Q, E, Z	0.207 UJ Q	0.226 UJ Q	0.209 UJ Q	0.134 J Q, Z	0.196 J Q, E, Z
Arsenic	mg/kg	6.55 J Q	5.82 J E	4.53 J Q	5.31 J Q	5.06 J Q	5.85 J Q	11.4 J E
Beryllium	mg/kg	0.675 J Q	0.490 J E, Q	0.521 J Q	0.634	0.586	0.573 J Q	0.968 J E, Q
Barium	mg/kg	96.3 J A	60.0 J E	63.6 J A	67.4 J E, A	61.2 J E, A	76.3 J A	101 J E
Boron	mg/kg	12.2	7.42	8.16	13.5	10.2	12.1	5.00 J Z
Cadmium	mg/kg	0.295	0.285 J Q	0.212	0.355	0.322	0.31	0.196 J Q
Chromium	mg/kg	28.9 J Q, A	28.8 J E, Q	25.6 J Q, A	30.0 J Q, A	26.6 J Q, A	26.5 J Q, A	30.3 J E, Q
Cobalt	mg/kg	10.6 J A	5.53 J E, Q	5.78 J A	9.27 J A	8.41 J A	9.15 J A	12.8 J E, Q
Copper	mg/kg	21.0 J A	10.1 J E, Q	12.4 J A	17	9.74	17.2 J A	36.9 J E, Q
Vanadium	mg/kg	52.9 J A	36.5 J E	39.3 J A	41.8 J A	37.1 J A	44.7 J A	63.3 J E
Zinc	mg/kg	70.9 J A	34.7 J E, A	45.2 J A	47.1	42.3	57.3 J A	83.1 J E, A
Zirconium	mg/kg	4.12 J Z	5.48	3.48 J Z	6.59	3.53 J Z	4.23 J Z	7.71
Calcium	mg/kg	84200 J E	172000	122000 J E	79200	177000	107000 J E	66300
Phosphorus	mg/kg	588	328	424	461	346	507	374
Selenium	mg/kg	0.268 J Z	0.103 J Z	0.167 J Z	0.250 J Z	0.185 J Z	0.187 J Z	0.508
Chromium VI	mg/kg	0.69 J Z	0.24 J Z	0.62 J Z	1.1 U	0.24 J Z	1.1	0.73 J Z
Perchlorate (314.0)	ug/kg	32.2 U	32.6 U	31.7 U	34.2 U	32.6 U	32.2 U	34.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	6.7	7.9	5.3	12.4	8.1	6.7	13
pH	pH unit	7.59	8.47	7.83	8.65	8.75	7.88	7.65

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.8	1.1 U	1.2	1.1 U	2.8	1.0 UJ Q	1.3 J Q
Aluminum	mg/kg	22400	23400	12000	30400	17000	15200	16000
Iron	mg/kg	25100	26500	15100	36800	26700	21500	23500 J Q
Lead	mg/kg	20.7 J E	19.8 J A	6.52 J E	17.6 J A	7.95	13.9 J A	7.62 J Q, A
Lithium	mg/kg	28.1	21.3	11.4	31.2	18.4	25.1	26
Magnesium	mg/kg	7610	7330	4450	9210	5770 J E	5380	5360
Manganese	mg/kg	275 J E	356	302 J E	307	271	328	335
Mercury	mg/kg	0.114 U	0.0257 J Z	0.110 U	0.0329 J Z	0.106 U	0.0194 J Z	0.100 U
Molybdenum	mg/kg	0.568	0.431	0.108 U B	0.362	0.317	2.03 J Q	0.475
Nickel	mg/kg	25.2 J E, Q	16.2 J A	15.7 J E, Q	20.5 J A	16	17.5 J Q	18.0 J Q, A
Potassium	mg/kg	3190 J Q	5170	2090 J Q	5170	2800 J Q	3850 J Q	2560 J Q
Silver	mg/kg	0.0345 J Z	0.0405 J Z	0.108 U	0.0384 J Z	0.109 U	0.103 UJ B, Q	0.0203 J Z
Sodium	mg/kg	148	98.1 J Z	115	114	144 J E	72.2 J Z	79.9 J Z
Strontium	mg/kg	101	91.5	160	81.7	197	37.8	38.5
Thallium	mg/kg	0.389 J E, Q	0.257	0.248 J E, Q	0.342	0.321	0.351 J Q	0.295
Tin	mg/kg	11.1 U B	10.4 U B	11.0 U B	10.4 U B	10.9 U B	9.90 U B	10.6 U B
Titanium	mg/kg	649	1080	569	1490	711	1100	918
Antimony	mg/kg	0.182 J Q, E, Z	0.105 J Q, Z	0.105 J Q, E, Z	0.141 J Q, Z	0.106 J Z	0.149 J Q, Z	0.0798 J Q, Z
Arsenic	mg/kg	16.0 J E	5.57 J Q	6.01 J E	8.06 J Q	10.9	7.58 J E, Q	6.25 J Q
Beryllium	mg/kg	0.964 J E, Q	0.591 J Q	0.630 J E, Q	0.757 J Q	0.573	0.69	0.658
Barium	mg/kg	111 J E	74.7 J A	72.8 J E	116 J A	95.8	108 J A	97.4 J E, A
Boron	mg/kg	5.58	10.2	6.87	11.6	7.11	7.63	10.1
Cadmium	mg/kg	0.256 J Q	0.312	0.222 J Q	0.247	0.262	0.235 J Q	0.235
Chromium	mg/kg	29.8 J E, Q	30.1 J Q, A	38.9 J E, Q	32.0 J Q, A	33.5	25.8 J Q	24.0 J Q, A
Cobalt	mg/kg	13.5 J E, Q	8.24 J A	7.99 J E, Q	12.2 J A	9.46	8.91 J Q, A	9.23 J A
Copper	mg/kg	37.9 J E, Q	16.2 J A	10.9 J E, Q	21.7 J A	13.4	14.3 J Q	11.3
Vanadium	mg/kg	58.7 J E	51.5 J A	53.9 J E	64.7 J A	57.3	49.8 J E	44.4 J A
Zinc	mg/kg	114 J E, A	58.7 J A	45.9 J E, A	77.0 J A	54.5	82.8	62.3
Zirconium	mg/kg	8.05	3.21 J Z	5.16 J Z	3.28 J Z	5.71	1.71 J Z	3.77 J Z
Calcium	mg/kg	70600	70400 J E	129000	36200 J E	116000	35400	40700
Phosphorus	mg/kg	582	620	321	678	373	469	443
Selenium	mg/kg	0.234 J Z	0.259 J Z	0.0717 J Z	0.331 J Z	0.236 J Z	0.221 J Z	0.182 J Z
Chromium VI	mg/kg	0.48 J Z	1.1 U	1.4	1.1 U	0.48 J Z	1.0 U	0.43 J Z
Perchlorate (314.0)	ug/kg	34.6 U	31.9 U	33.4 U	32.0 U	33.7 U	30.9 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.2	6	10.1	6.3	10.9	2.9	7.3
pH	pH unit	8.11	7.67	8.6	7.72	8.72	8	7.82

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 UJ Q	1.8 J Q	1.1 J Q	1.0 UJ Q	1.0 J Q, Z	1.8 J Q	1.1 U
Aluminum	mg/kg	21300	18400 J E	19000 J E	21000	18300 J E	21700 J E	22600
Iron	mg/kg	24200	25500	23500	23400	23200	25200	26200
Lead	mg/kg	14.9 J A	7.86 J Q, A	8.44 J Q, A	11.3 J A	7.59 J Q, A	9.03 J Q, A	14.4 J A
Lithium	mg/kg	23.9	24.6	23.6	22.6	23.2	24.4	21.6
Magnesium	mg/kg	6800	5750	5890	6720	5900	6540	6900
Manganese	mg/kg	402	366	398	451	433	375	462
Mercury	mg/kg	0.0138 J Z	0.106 U	0.108 U B	0.0074 J Z	0.105 U B	0.108 U	0.0294 J Z
Molybdenum	mg/kg	0.531 J Q	0.405	0.109 U B	0.491 J Q	0.385	0.381	0.574
Nickel	mg/kg	21.1 J Q	14.3 J A	15.7 J A	19.2 J Q	15.2 J A	16.2 J A	20.3 J A
Potassium	mg/kg	4610 J Q	2980 J Q	3260 J Q	4370 J Q	3310 J Q	3020 J Q	6450
Silver	mg/kg	0.0994 UJ B, Q	0.0205 J Z	0.0180 J Z	0.103 UJ B, Q	0.0154 J Z	0.0213 J Z	0.0519 J Z
Sodium	mg/kg	94.3 J Z	88.7 J Z	122	115	92.9 J Z	116	86.5 J Z
Strontium	mg/kg	73.1	62.5	107	101	72.6	97.7	28.9
Thallium	mg/kg	0.367 J Q	0.288	0.281	0.356 J Q	0.314	0.284	0.341
Tin	mg/kg	10.4 U B	10.6 U B	10.8 U B	10.2 U B	10.3 U B	11.2 U B	10.4 U B
Titanium	mg/kg	1050	964	963	1070	893	881	1220
Antimony	mg/kg	0.146 J Q, Z	0.0773 J Q, Z	0.113 J Q, Z	0.122 J Q, Z	0.208 UJ Q	0.104 J Q, Z	0.132 J Q, Z
Arsenic	mg/kg	6.92 J E, Q	6.54 J Q	5.73 J Q	6.44 J E, Q	5.76 J Q	6.29 J Q	6.22 J Q
Beryllium	mg/kg	0.748	0.676 J Q	0.659 J Q	0.71	0.619 J Q	0.751 J Q	0.698 J Q
Barium	mg/kg	115 J A	87.1	92.4	105 J A	95.7	91.4	109 J A
Boron	mg/kg	12.2	11.5	11.8	10.9	12.8	12.9	9.38
Cadmium	mg/kg	0.324 J Q	0.203	0.233	0.338 J Q	0.239	0.255	0.396
Chromium	mg/kg	32.3 J Q	24.8 J Q, A	26.1 J Q, A	31.3 J Q	26.2 J Q, A	29.6 J Q, A	28.8 J Q, A
Cobalt	mg/kg	9.79 J Q, A	7.79 J A	7.85 J A	9.63 J Q, A	7.94 J A	8.51 J A	10.1 J A
Copper	mg/kg	19.2 J E, Q	13.3 J A	14.5 J A	18.0 J E, Q	13.2 J A	15.0 J A	19.8 J A
Vanadium	mg/kg	51.4 J E	45.1 J A	45.8 J A	53.2 J E	45.2 J A	51.1 J A	49.4 J A
Zinc	mg/kg	72.3	60.1	58.6	63.8	62.7	59.8	77.5 J A
Zirconium	mg/kg	2.13 J Z	3.69 J Z	4.20 J Z	2.65 J Z	3.57 J Z	4.87 J Z	2.69 J Z
Calcium	mg/kg	68000	60400	110000	96600	72800	92700	12400 J E
Phosphorus	mg/kg	615	490	481	578	512	517	827
Selenium	mg/kg	0.315 J Z	0.245 J Z	0.206 J Z	0.291 J Z	0.224 J Z	0.436 J Z	0.207 J Z
Chromium VI	mg/kg	0.40 J Z	0.24 J Z	1.1 U	1.0 U	1.1 U	0.26 J Z	0.41 J Z
Perchlorate (314.0)	ug/kg	31.3 U	32.3 U	33.0 U	31.4 U	32.5 U	33.6 U	31.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	4.2	7.1	9.2	4.4	7.6	10.8	4.1
pH	pH unit	7.87	7.96	8.22	7.74	7.95	7.9	7.69

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.2 J Q	0.93 J Z	1.2 J Q	0.97 J Z	1.5 J Q	1.1 UJ Q	1.0 U
Aluminum	mg/kg	21400 J E	21800	28400 J E	24600	30600 J E	12900 J E	13200
Iron	mg/kg	23900	25800	29700	30100	28600	17400	19800
Lead	mg/kg	6.92 J Q, A	19.2 J A	8.87 J Q, A	13.4 J A	8.34 J Q, A	4.81 J Q, A	8.31 J A
Lithium	mg/kg	24.6	22.9	27.9	24	29.1	23.9	24.2
Magnesium	mg/kg	4600	7270	6630	7380	5660	3170	4070
Manganese	mg/kg	403	497	299	474	315	179	272
Mercury	mg/kg	0.103 U	0.0343 J Z	0.105 U B	0.102 U B	0.111 U B	0.103 U	0.102 U B
Molybdenum	mg/kg	0.49	0.57	0.555	0.504	0.596	0.393	0.459
Nickel	mg/kg	16.1 J A	17.4 J A	17.7 J A	19.3 J A	17.1 J A	7.43 J A	9.48 J A
Potassium	mg/kg	3940 J Q	6270	3490 J Q	6280	2950 J Q	1680 J Q	3000
Silver	mg/kg	0.0377 J Z	0.0746 J Z	0.0315 J Z	0.0484 J Z	0.0334 J Z	0.0258 J Z	0.0234 J Z
Sodium	mg/kg	83.0 J Z	88.5 J Z	94.3 J Z	86.8 J Z	84.3 J Z	73.6 J Z	57.7 J Z
Strontium	mg/kg	21.1	27.8	22	37.8	21.8	21.2	8.34
Thallium	mg/kg	0.313	0.284	0.291	0.306	0.357	0.242	0.254
Tin	mg/kg	11.0 U B	10.3 U B	10.8 U B	10.2 U B	11.0 U B	10.8 U B	9.83 U B
Titanium	mg/kg	1150	1210	1200	1200	1190	986	1020
Antimony	mg/kg	0.211 UJ Q	0.151 J Q, Z	0.138 J Q, Z	0.120 J Q, Z	0.115 J Q, Z	0.212 UJ Q	0.0723 J Q, Z
Arsenic	mg/kg	5.12 J Q	5.77 J Q	6.70 J Q	6.24 J Q	7.40 J Q	6.24 J Q	6.79 J Q
Beryllium	mg/kg	0.735 J Q	0.626 J Q	0.757 J Q	0.690 J Q	0.920 J Q	0.519 J Q	0.476 J Q
Barium	mg/kg	116	107 J A	74.8	107 J A	122	77.2	74.6 J A
Boron	mg/kg	9.65	10.1	11.5	8.97	10.9	3.99 J Z	1.70 J Z
Cadmium	mg/kg	0.176	0.398	0.159	0.402	0.0985 J Z	0.106 U	0.153
Chromium	mg/kg	22.5 J Q, A	26.3 J Q, A	28.5 J Q, A	30.0 J Q, A	28.6 J Q, A	12.7 J Q, A	14.3 J Q, A
Cobalt	mg/kg	8.16 J A	9.05 J A	9.96 J A	9.73 J A	8.56 J A	5.54 J A	5.64 J A
Copper	mg/kg	12.1 J A	18.5 J A	15.0 J A	19.2 J A	12.7 J A	6.42 J A	7.44 J A
Vanadium	mg/kg	43.7 J A	44.7 J A	48.3 J A	51.0 J A	55.5 J A	31.5 J A	30.6 J A
Zinc	mg/kg	62	83.1 J A	68.2	73.9 J A	59.7	48.7	55.7 J A
Zirconium	mg/kg	4.78 J Z	2.97 J Z	6.32	3.05 J Z	5.59	3.02 J Z	1.50 J Z
Calcium	mg/kg	11200	11400 J E	5480	20800 J E	14300 J FD	8290	3480 J E
Phosphorus	mg/kg	300	864	399	840	187	358	348
Selenium	mg/kg	0.0647 J Z	0.230 J Z	0.233 J Z	0.194 J Z	0.0883 J FD, Z	0.423 U	0.125 J Z
Chromium VI	mg/kg	3.1	1.0 U	0.44 J Z	1.1 U	0.24 J FD, Z	1.1 U	0.41 J Z
Perchlorate (314.0)	ug/kg	32.9 U	32.3 U	32.9 U	31.3 U	33.5 U	32.4 U	30.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	8.8	7.2	8.9	4.1	10.5	7.4	2.2
pH	pH unit	8.17	7.56	6.89	7.44	7.87	8.33	6.52

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292	DE292
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ FD	1.1 U	0.94 J Z	4.8	1.1 UJ Q	3	5.4
Aluminum	mg/kg	11500	20400	21100	22800	25600	20200	20700
Iron	mg/kg	22700	27100	26000	27500	31400	23300	24800
Lead	mg/kg	5.09 J A	23.0 J A	11.2 J A	11.4 J A	12.8 J A	9.62 J A	12.6 J A
Lithium	mg/kg	23.1	20.6	21.3	25	23.9	22.3	22.9
Magnesium	mg/kg	4390	7010	7170	6900	7600	6240	6190
Manganese	mg/kg	321	395	357	394	375	403	390
Mercury	mg/kg	0.0985 U	0.104 U B	0.104 U	0.105 U	0.0199 J Z	0.109 U	0.0107 J Z
Molybdenum	mg/kg	0.104 U B	0.427	0.111 U B	0.109 U B	0.383	0.108 U B	0.68
Nickel	mg/kg	8.55	16.5 J A	20.5	22.7	16.2 J A	20.5	28.5
Potassium	mg/kg	2470	5050	3670	3140	5560	3220	2500
Silver	mg/kg	0.104 U	0.0311 J Z	0.0273 J Z	0.0297 J Z	0.0342 J Z	0.0356 J Z	0.0276 J Z
Sodium	mg/kg	63.9 J Z	115	113	142	95.7 J Z	200	368
Strontium	mg/kg	7.27	135	128	91	58.9	98.9	92.6
Thallium	mg/kg	0.288	0.273	0.285	0.302	0.262	0.324	0.383
Tin	mg/kg	10.5 U B	10.4 U B	11.2 U B	11.0 U B	10.6 U B	10.9 U B	10.8 U B
Titanium	mg/kg	1190	1010	922	1020	1100	932	1030
Antimony	mg/kg	0.208 UJ Q	0.182 J Q, Z	0.135 J Q, Z	0.151 J Q, Z	0.105 J Q, Z	0.128 J Q, Z	0.150 J Q, Z
Arsenic	mg/kg	6.63 J Q	5.97 J Q	7.01 J Q	7.19 J Q	5.44 J Q	6.28 J Q	8.32 J Q
Beryllium	mg/kg	0.599	0.581 J Q	0.83	0.857	0.562 J Q	0.906	0.967
Barium	mg/kg	87.0 J A	79.5 J A	90.2 J A	99.0 J A	88.1 J A	107 J A	189 J A
Boron	mg/kg	5.26 U	9.51	8.36	6.8	10.4	7.84	6.42
Cadmium	mg/kg	0.0592 J FD, Z	0.346	0.322	0.35	0.357	0.33	0.472
Chromium	mg/kg	13.9 J A	27.1 J Q, A	33.5 J A	36.8 J A	31.0 J Q, A	36.0 J A	45.7 J A
Cobalt	mg/kg	7.70 J A	8.63 J A	10.2 J A	12.7 J A	7.51 J A	10.5 J A	14.7 J A
Copper	mg/kg	7.4	18.0 J A	21.2	20.3	15.9 J A	17.2	22.8
Vanadium	mg/kg	31.6 J Q, A	44.8 J A	56.9 J Q, A	61.9 J Q, A	51.1 J A	61.7 J Q, A	78.9 J Q, A
Zinc	mg/kg	67.2 J A	63.1 J A	61.3 J A	65.6 J A	61.2 J A	60.6 J A	74.5 J A
Zirconium	mg/kg	2.17 J Z	3.21 J Z	4.69 J Z	5.66	3.92 J Z	4.14 J Z	6.18
Calcium	mg/kg	3680 J E	109000 J E	101000 J E	80900 J E	48700 J E	116000 J E	117000 J E
Phosphorus	mg/kg	472	544	576	432	706	502	396
Selenium	mg/kg	0.107 J Z	0.235 J Z	0.217 J Z	0.206 J Z	0.201 J Z	0.206 J Z	0.256 J Z
Chromium VI	mg/kg	1.1 U	0.73 J Z	0.32 J Z	0.24 J Z	0.77 J Z	0.28 J Z	0.26 J Z
Perchlorate (314.0)	ug/kg	31.6 U	32.2 U	33.9 U	33.4 U	32.1 U	33.6 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	--	--	--	--
Percent Moisture	%	5	6.8	11.5	10.2	6.6	10.6	10.2
pH	pH unit	7.91	7.29	8.38	8.37	7.61	8.45	8.66

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DE259	DE291	DE291	DE259	DE291	DE291	DE258
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 J Q	1.7	2.5	0.92 J Q, Z	1.8	5.6	0.99 J Q, Z
Aluminum	mg/kg	20600	21700	28300	23800	25900	19300	19800
Iron	mg/kg	23300	29000	38800	25200	33500	25200	25200
Lead	mg/kg	11.9 J A	11.6 J E, Q	12.6 J E, Q	16.7 J A	26.8 J E, Q	9.32 J E, Q	16.7 J A
Lithium	mg/kg	22.4	31.8	43.9	23.1	34.1	26.7	25.5
Magnesium	mg/kg	6650	8070	10900	7060	9040	6940	6680
Manganese	mg/kg	285	298	303	347	319	247	330
Mercury	mg/kg	0.0281 J Z	0.0080 J Z	0.105 U	0.0248 J Z	0.107 U	0.108 U	0.0193 J Z
Molybdenum	mg/kg	0.311	0.358 J E, Q	0.453 J E, Q	0.399	0.108 UJ E, B, Q	0.109 UJ E, B, Q	0.324 J Q
Nickel	mg/kg	15.2 J A	20.6 J Q, E	22.6 J Q, E	17.5 J A	44.6 J Q, E	18.7 J Q, E	18.9 J Q
Potassium	mg/kg	4270	2680	4210	5120	4040	3320	4220 J Q
Silver	mg/kg	0.0264 J Z	0.0190 J Q, E, Z	0.113 UJ E	0.0485 J Z	0.0463 J Q, E, Z	0.0276 J Q, E, Z	0.104 UJ B, Q
Sodium	mg/kg	112	106 J Z	149	94.3 J Z	138	212	104 J Z
Strontium	mg/kg	138	121	101	96.3	128	172	106
Thallium	mg/kg	0.243	0.328 J Q, E	0.414 J Q, E	0.289	0.760 J Q, E	0.287 J Q, E	0.330 J Q
Tin	mg/kg	10.4 U B	11.0 U B	11.3 U B	10.2 U B	11.0 U B	10.9 U B	10.5 U B
Titanium	mg/kg	1020	947	1290	1200	1290	822	980
Antimony	mg/kg	0.120 J Q, Z	0.223 UJ Q	0.225 UJ B, Q	0.134 J Q, Z	0.216 UJ B, Q	0.217 UJ B, Q	0.113 J Q, Z
Arsenic	mg/kg	6.00 J Q	6.96 J Q, E	8.39 J Q, E	6.80 J Q	14.7 J Q, E	5.97 J Q, E	6.35 J E, Q
Beryllium	mg/kg	0.547 J Q	0.759 J Q, E	0.816 J Q, E	0.617 J Q	1.14 J Q, E	0.677 J Q, E	0.684
Barium	mg/kg	73.7 J A	88.3 J E	110 J E	87.5 J A	130 J E	98.0 J E	98.8 J A
Boron	mg/kg	7.64	9.6	13	10.6	11.3	9.4	11.2
Cadmium	mg/kg	0.324	0.255 J Q, E	0.178 J Q, E	0.384	0.326 J Q, E	0.293 J Q, E	0.263 J Q
Chromium	mg/kg	34.0 J Q, A	32.3 J Q, E, A	32.6 J Q, E, A	31.4 J Q, A	57.9 J Q, E, A	39.3 J Q, E, A	34.8 J Q
Cobalt	mg/kg	7.64 J A	11.6 J Q, E, A	14.1 J Q, E, A	8.67 J A	22.6 J Q, E, A	8.87 J Q, E, A	9.74 J Q, A
Copper	mg/kg	14.8 J A	22.7 J E, Q	28.7 J E, Q	15.8 J A	59.0 J E, Q	15.2 J E, Q	18.4 J E, Q
Vanadium	mg/kg	53.2 J A	61.3 J Q, E	65.4 J Q, E	53.8 J A	123 J Q, E	65.8 J Q, E	59.0 J E
Zinc	mg/kg	58.8 J A	73.5 J E, A	85.2 J E, A	62.8 J A	186 J E, A	61.2 J E, A	64.6
Zirconium	mg/kg	4.98 J Z	7.88	8.6	2.23 J Z	9.49	6.93	3.31 J Z
Calcium	mg/kg	100000 J E	102000	54300	95500 J E	70400	97900	109000
Phosphorus	mg/kg	489	444 J Q	500 J Q	642	608 J Q	437 J Q	500
Selenium	mg/kg	0.249 J Z	0.445 UJ B, Q	0.450 UJ B, Q	0.266 J Z	0.433 UJ B, Q	0.453 J Q	0.631
Chromium VI	mg/kg	0.82 J Z	0.63 J Z	1.5	0.34 J Z	0.32 J Z	0.28 J Z	0.73 J Z
Perchlorate (314.0)	ug/kg	31.8 U	33.7 U	34.1 U	31.8 U	34.1 U	33.2 U	31.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	11.1	12	5.8	12	9.7	4.4
pH	pH unit	7.64	8.36	8.35	7.59	8.4	8.52	7.6

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DE287	DE287
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
Fluoride	mg/kg	1.0 J Q, Z	1.3 J Q
Aluminum	mg/kg	14300	18700
Iron	mg/kg	20800 J Q	30500 J Q
Lead	mg/kg	6.58 J Q, A	10.7 J Q, A
Lithium	mg/kg	21.5	30
Magnesium	mg/kg	5150	6500
Manganese	mg/kg	296	246
Mercury	mg/kg	0.106 U	0.0106 J Z
Molybdenum	mg/kg	0.112 U B	0.109 U B
Nickel	mg/kg	14.3 J Q, A	23.4 J Q, A
Potassium	mg/kg	2800 J Q	3350 J Q
Silver	mg/kg	0.112 U	0.0176 J Z
Sodium	mg/kg	123	123
Strontium	mg/kg	128	122
Thallium	mg/kg	0.267	0.409
Tin	mg/kg	10.9 U B	11.0 U B
Titanium	mg/kg	518	624
Antimony	mg/kg	0.225 UJ Q	0.0969 J Q, Z
Arsenic	mg/kg	5.01 J Q	8.53 J Q
Beryllium	mg/kg	0.629	0.844
Barium	mg/kg	67.0 J E, A	94.0 J E, A
Boron	mg/kg	11.8	13.1
Cadmium	mg/kg	0.205	0.336
Chromium	mg/kg	31.7 J Q, A	40.5 J Q, A
Cobalt	mg/kg	7.51 J A	15.6 J A
Copper	mg/kg	10.1	13.1
Vanadium	mg/kg	44.8 J A	65.1 J A
Zinc	mg/kg	44.2	67.1
Zirconium	mg/kg	4.81 J Z	5.54
Calcium	mg/kg	109000	92400
Phosphorus	mg/kg	397	462
Selenium	mg/kg	0.192 J Z	0.217 J Z
Chromium VI	mg/kg	0.47 J Z	0.43 J Z
Perchlorate (314.0)	ug/kg	33.7 U	34.4 U
Perchlorate (6850)	ug/kg	--	--
Percent Moisture	%	11	12.7
pH	pH unit	8.71	7.33

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DX147	DX155	DX147	DX147	DX155	DX147	DX155
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.06 U	0.0547 J Z	1.02 U	1.02 U	0.0502 J Z	1.03 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.28 U B	5.58 U B	0.163 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
OCDD	ng/kg	19.3	11.2 U B	18.7	5.28 J Z	11.1 U B	30	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.77 J Z	5.58 U B	2.71 J Z	5.09 U B	5.53 U B	2.29 J Z	5.62 U B
OCDF	ng/kg	1.15 J Z	11.2 U B	10.2 U B	10.2 U B	11.1 U B	10.3 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0733 J Z	5.58 U B	0.0692 J Z	0.0315 J Z	5.53 U	0.0397 J Z	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	0.0599 J Z	0.0784 J Z	0.0765 J Z	0.0587 J Z	5.53 U	0.0474 J Z	5.62 U
2,3,7,8-TCDF	ng/kg	1.06 U B	0.0395 J Z	0.196 J Z	1.02 U	1.11 U	1.03 U B	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	0.381 J Z	5.58 U B	0.317 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	0.133 J Z	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.592 J Z	5.58 U B	0.574 J Z	5.09 U B	5.53 U B	0.474 J Z	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.288 J Z	5.58 U B	0.220 J Z	0.0398 J Z	5.53 U B	0.0598 J Z	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U B	5.62 U B
Aroclor 1260	ug/kg	2.2	1.9 U	1.8 UJ FD	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1254	ug/kg	3.2	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	2.8 J Z	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	0.49 J Z	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DX145	DX155	DX145	DX155	DX155	DX145	DX155
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0366 J Z	1.07 U	1.04 U	0.0695 J Z	1.07 U	0.0495 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.269 J Z	5.36 U	0.164 J Z	5.45 U B	5.35 U B	0.296 J Z	5.65 U B
OCDD	ng/kg	32	10.7 U B	18	10.9 U B	10.7 U B	35.5	3.28 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	4.59 J Z	5.36 U B	2.62 J Z	5.45 U B	5.35 U B	5.41	5.65 U B
OCDF	ng/kg	1.84 J Z	10.7 U B	10.4 U B	10.9 U B	10.7 U B	1.93 J Z	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.148 J Z	5.36 U	0.0738 J Z	5.45 U B	5.35 U B	0.115 J Z	5.65 U B
1,2,3,7,8-PeCDD	ng/kg	0.118 J Z	5.36 U	0.0440 J Z	0.0806 J Z	5.35 U	0.187 J Z	0.0375 J Z
2,3,7,8-TCDF	ng/kg	0.658 J Z	1.07 U	0.173 J Z	0.0375 J Z	1.07 U	0.851 J Z	0.0471 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
2,3,4,7,8-PeCDF	ng/kg	1.64 J Z	5.36 U B	0.403 J Z	5.45 U B	5.35 U B	1.10 J Z	5.65 U B
1,2,3,7,8-PeCDF	ng/kg	0.222 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.271 J Z	5.65 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.304 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.430 J Z	5.65 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.32 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	1.31 J Z	5.65 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.474 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.449 J Z	5.65 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U
Aroclor 1260	ug/kg	2.4	1.8 U	1.8 U	1.9 U	1.8 U	3.3	2.0 U
Aroclor 1254	ug/kg	3.6	1.8 U	1.8 U	1.9 U	1.8 U	5.4	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	3.2 J Z	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	5.5	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DX155	DX145	DX155	DX145	DX155	DX147	DX155
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.12 U	1.06 U	1.11 U	1.05 U	1.10 U	1.03 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	5.60 U B	0.268 J Z	5.55 U B	0.202 J Z	5.52 U B	0.289 J Z	5.35 U B
OCDD	ng/kg	11.2 U B	43.9	11.1 U B	26.4	11.0 U B	14.2	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.60 U B	5.79	5.55 U B	3.22 J Z	5.52 U B	2.17 J Z	5.35 U B
OCDF	ng/kg	11.2 U B	1.89 J Z	11.1 U B	1.62 J Z	11.0 U B	1.27 J Z	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.60 U B	0.109 J Z	5.55 U B	0.141 J Z	5.52 U B	0.224 J Z	5.35 U
1,2,3,7,8-PeCDD	ng/kg	5.60 U	0.124 J Z	5.55 U	0.0769 J Z	0.0619 J Z	0.188 J Z	5.35 U
2,3,7,8-TCDF	ng/kg	0.0390 J Z	0.451 J Z	0.0609 J Z	0.195 J Z	0.0343 J Z	1.03 U B	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.211 J Z	5.35 U B
2,3,4,7,8-PeCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.601 J Z	5.35 U
1,2,3,7,8-PeCDF	ng/kg	5.60 U	0.167 J Z	5.55 U B	0.144 J Z	5.52 U B	0.268 J Z	5.35 U
1,2,3,6,7,8-HxCDF	ng/kg	5.60 U	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.372 J Z	5.35 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.60 U	0.320 J Z	5.55 U B	5.27 U B	5.52 U	0.253 J Z	5.35 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.311 J Z	5.35 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.60 U B	1.21 J Z	5.55 U B	5.27 U B	5.52 U B	0.756 J Z	5.35 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.438 J Z	5.35 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U	5.27 U B	5.52 U B	0.222 J Z	5.35 U B
Aroclor 1260	ug/kg	2.0 U	1.8 U	1.9 U	2.2	1.9 U	1.6 J Z	1.8 U
Aroclor 1254	ug/kg	2.0 U	1.8 U	1.9 U	14	1.9 U	1.5 J Z	1.8 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5460	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	2.4 J Z	3.7 U	2.5 J Z	3.6 UJ E
Aroclor 1232	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5442	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E
Aroclor 1248	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5432	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX147	DX152	DX152	DX147	DX152	DX152	DX145
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U	1.06 U B	1.08 U B	1.03 U	0.0439 J Z	1.10 U	0.0659 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.210 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.350 J Z
OCDD	ng/kg	64.7	10.6 U B	10.8 U B	86.6	10.8 U B	11.0 U B	21.4
1,2,3,4,6,7,8-HpCDD	ng/kg	6.2	5.28 U B	5.40 U B	5.08 J Z	5.39 U B	5.48 U B	3.04 J Z
OCDF	ng/kg	1.33 J Z	10.6 U B	10.8 U B	10.3 U B	10.8 U B	11.0 U B	1.31 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.194 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.0844 J Z
1,2,3,7,8-PeCDD	ng/kg	0.164 J Z	5.28 U B	5.40 U B	5.14 U B	0.142 J Z	5.48 U B	0.140 J Z
2,3,7,8-TCDF	ng/kg	1.04 U B	1.06 U B	1.08 U B	0.0580 J Z	0.0507 J Z	1.10 U B	0.498 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	0.0393 J Z	5.48 U B	5.14 U B
2,3,4,7,8-PeCDF	ng/kg	0.409 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.640 J Z
1,2,3,7,8-PeCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.590 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.172 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.247 J Z	5.28 U B	5.40 U B	0.169 J Z	5.39 U B	5.48 U B	0.267 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.690 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.417 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.20 U	5.28 U B	5.40 U B	0.0687 J Z	5.39 U B	5.48 U B	5.14 U B
Aroclor 1260	ug/kg	2	1.8 U	1.9 U	0.55 J Z	1.8 U	1.9 U	2.8
Aroclor 1254	ug/kg	1.4 J Z	1.8 U	1.9 U	1.8 U	0.59 J L, Z	1.9 U	6.8
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	1.4 J Z	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	1.4 J Z
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.1 J Z
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX150	DX145	DX152	DX145	DX152	DX152	DX145
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	0.0382 J Z	1.06 U	1.02 U	1.11 U	1.07 U	1.02 U
1,2,3,7,8,9-HxCDD	ng/kg	5.44 U B	0.343 J Z	5.31 U B	0.278 J Z	5.56 UJ FD	5.34 U B	0.0989 J Z
OCDD	ng/kg	10.9 U B	34.3	10.6 U B	36.1	11.1 UJ B, FD	10.7 U B	9.43 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.44 U B	4.94 J Z	5.31 U B	4.00 J Z	5.56 U B	5.34 U B	1.64 J Z
OCDF	ng/kg	10.9 U B	2.14 J Z	10.6 U B	2.24 J Z	11.1 U B	10.7 U B	10.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.44 U B	0.123 J Z	5.31 U	0.102 J Z	5.56 UJ B, FD	5.34 U B	0.0545 J Z
1,2,3,7,8-PeCDD	ng/kg	5.44 U	0.139 J Z	5.31 U	0.0931 J Z	5.56 UJ FD	5.34 U B	0.0518 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	0.699 J Z	1.06 U	9.38	1.11 U	1.07 U	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.617 J Z	5.56 U B	5.34 U B	5.08 U B
2,3,4,7,8-PeCDF	ng/kg	5.44 U B	0.350 J Z	5.31 U B	5.72	5.56 U B	5.34 U B	0.361 J Z
1,2,3,7,8-PeCDF	ng/kg	5.44 U B	0.326 J Z	5.31 U B	8.38	5.56 UJ FD	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.44 U B	0.316 J Z	5.31 U B	1.61 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.44 U	0.345 J Z	5.31 U B	0.274 J Z	5.56 UJ FD	5.34 U B	5.08 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.44 U B	0.450 J Z	5.31 U B	1.40 J Z	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.44 U B	1.12 J Z	5.31 U B	1.50 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.0636 J Z	0.488 J Z	5.31 U B	6.21	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.718 J Z	5.56 UJ FD	5.34 U B	5.08 U B
Aroclor 1260	ug/kg	1.9 U	6.4	1.9 U	220	0.80 J FD, S, L, Z	1.1 J S, L, Z	1.7 U
Aroclor 1254	ug/kg	1.9 U	8.9	1.9 U	1500	1.9 J FD, S, L	5.5 J S, L	1.7 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 UJ E	2.3 J Z	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1248	ug/kg	1.9 U	1.5 J Z	1.9 U	500	0.51 J FD, S, L, Z	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DX157	DX145	DX157	DX157	DX145	DX157	DX157
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U B	1.06 U	1.12 U B	1.08 U B	0.0343 J Z	1.11 U B	1.09 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.25 U B	0.141 J Z	5.62 U B	5.41 U B	0.257 J Z	5.55 U B	5.46 U B
OCDD	ng/kg	10.5 U B	18.9	2.43 J Z	10.8 U B	37.9	11.1 U B	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.25 U B	3.16 J Z	5.62 U B	5.41 U B	4.66 J Z	5.55 U B	5.46 U B
OCDF	ng/kg	10.5 U B	1.32 J Z	11.2 U B	10.8 U B	2.83 J Z	11.1 U B	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.25 U B	0.0740 J Z	5.62 U B	5.41 U B	0.0810 J Z	5.55 U B	5.46 U B
1,2,3,7,8-PeCDD	ng/kg	5.25 U B	0.0673 J Z	5.62 U B	5.41 U B	0.0549 J Z	5.55 U B	5.46 U B
2,3,7,8-TCDF	ng/kg	1.05 UJ FD	0.344 J Z	1.12 U B	1.08 U	0.219 J Z	1.11 U B	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
2,3,4,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	0.255 J Z	5.55 U B	5.46 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	1.17 J Z	5.55 U B	5.46 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
Aroclor 1260	ug/kg	1.8 U	2.2	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	2.4 J Z	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DX146	DX156	DX156	DX146	DX156	DX156	DX147
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U	1.10 U B	1.08 U B	0.0466 J Z	1.12 U B	1.10 U B	0.0482 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.153 J Z	5.51 U B	5.41 U B	0.333 J Z	5.60 U B	5.48 U B	5.00 U B
OCDD	ng/kg	25.7	11.0 U B	10.8 U B	40.2	11.2 U B	11.0 U B	27.7
1,2,3,4,6,7,8-HpCDD	ng/kg	3.60 J Z	5.51 U B	5.41 U B	5.75	5.60 U B	5.48 U B	3.94 J Z
OCDF	ng/kg	1.23 J Z	11.0 U B	10.8 U B	1.63 J Z	11.2 U B	11.0 U B	10.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0991 J Z	5.51 U B	5.41 U B	0.128 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDD	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,7,8-TCDF	ng/kg	0.128 J Z	1.10 U B	1.08 U B	0.474 J Z	1.12 U B	1.10 U B	0.282 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,4,7,8-PeCDF	ng/kg	0.165 J Z	5.51 U B	5.41 U B	5.25 U	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDF	ng/kg	0.0992 J Z	5.51 U B	5.41 U B	0.116 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.182 J Z	5.51 U B	5.41 U B	0.310 J Z	5.60 U B	5.48 U B	0.225 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.183 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.777 J Z	5.51 U B	5.41 U B	1.01 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.186 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.26 U	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	0.0642 J Z
Aroclor 1260	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1254	ug/kg	1.3 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5460	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DX155	DX155
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
2,3,7,8-TCDD	ng/kg	1.10 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U	5.62 U B
OCDD	ng/kg	11.0 U B	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.52 U B	5.62 U B
OCDF	ng/kg	11.0 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	5.52 U	5.62 U
2,3,7,8-TCDF	ng/kg	1.10 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U B	5.62 U B
Aroclor 1260	ug/kg	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1232	ug/kg	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1248	ug/kg	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ E	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-007-SA8S-SS-0.0-0.5	SL-008-SA8S-SS-0.0-0.5	SL-009-SA8S-SS-0.0-0.5	SL-010-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011	09/30/2011
SDG		DE258	DE258	DE258	DE258	DE259	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 UJ L	1.2 R Q, L	1.2 UJ L	1.3 UJ L	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.5 U	9.3 R Q	9.2 U	9.4 U	9.6 R Q	9.5 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R Q, L	2.5 R L	2.5 R L	2.6 R Q, L	2.5 R L	2.6 R L
MCPP	ug/kg	270 UJ L	280 J FD, L	260 UJ L	260 UJ L	190 J Z	110 J Z	270 U
2,4,5-TP	ug/kg	0.18 UJ L	0.18 UJ Q, L	0.17 UJ L	0.18 UJ L	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg	0.28 U	0.18 U	0.22	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	1900 J L	260 UJ L	260 UJ L	260 UJ L	270 U	320	270 U
2,4-D	ug/kg	3.8 U	3.7 U	3.7 U	3.8 U	3.9 U	3.8 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.8 UJ FD	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	7.0 UJ H	7.2 UJ H	6.8 UJ H	6.9 UJ H	17	4.7 J Z	8.1 U
Heptachlor Epoxide	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Mirex	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Aldrin	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.44 J H, S	0.059 J H, Z	0.17 UJ H	0.045 J H, Z	0.54 U	0.040 J Z	0.52
Endosulfan II	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDT	ug/kg	0.82 J H, S	0.42 UJ H	0.35 UJ H	0.35 UJ H	4.9	0.69	3.2 J Z
Endrin Ketone	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Chlordane	ug/kg	1.5 J H, S, Z	3.5 UJ H, FD	3.5 UJ H	1.9 J H, Z	6	2.3 J Z	4.2
Gamma-BHC (Lindane)	ug/kg	0.072 J H, S, Z	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Endrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Methoxychlor	ug/kg	1.8 UJ H	1.7 UJ H	1.7 UJ H	1.7 UJ H	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.52 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDE	ug/kg	0.85 J H, S	0.48 J H	0.35 UJ H	0.35 UJ H	8.8	0.44	5.4
Endrin Aldehyde	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.63 U	0.36 U	0.36 U
Heptachlor	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A9
Pesticides - Validated Data
HSA-8S

Sample Name		SL-011-SA8S-SS-0.0-0.5	SL-012-SA8S-SS-0.0-0.5	SL-013-SA8S-SS-0.0-0.5	SL-014-SA8S-SS-0.0-0.5	SL-015-SA8S-SS-0.0-0.5	SL-016-SA8S-SS-0.0-0.5	SL-017-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011
SDG		DE259	DE259	DE258	DE258	DE258	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.2 UJ L	1.2 UJ L	1.2 UJ L	1.2 U	0.45 J Z
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U	9.6 U	9.3 U	9.4 U	9.4 U	9.4 U	9.7 U
Dinitrobutyl Phenol	ug/kg	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.6 R L
MCPP	ug/kg	270 U	270 U	260 UJ L	260 UJ L	260 UJ L	260 U	270 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.26 J L	0.21 J L	0.18 UJ L	0.18 U	0.18 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	340 U	270 U	380 J L	260 UJ L	260 UJ L	1600	270 U
2,4-D	ug/kg	3.8 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.4 J Z	1.4 J Z	0.94 J Z	1.8	1.8 U	1.8 U
Toxaphene	ug/kg	9.4 U	13 U	6.8 UJ H	6.9 UJ H	6.9 UJ H	13 U	7.1 U
Heptachlor Epoxide	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.11 J Z	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Mirex	ug/kg	0.36 U	0.46 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.55 U	0.37 U
Aldrin	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Delta-BHC	ug/kg	0.18 U	1.4 U	0.17 UJ H	0.054 J H, Z	0.20 J H	0.5	0.18 U
Endosulfan II	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDT	ug/kg	1.8	1.8	1.9 J H	0.80 J H	0.29 J H, Z	2.1	4.6
Endrin Ketone	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Chlordane	ug/kg	4	1.6 J Z	2.7 J H, Z	2.4 J H, Z	1.9 J H, Z	1.3 J Z	1.2 J S, Z
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.060 J H, Z	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Dieldrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.33 J Z	0.37 U
Endrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Methoxychlor	ug/kg	1.8 U	2.2 U	1.7 UJ H	1.7 UJ H	1.7 UJ H	2.0 U	1.8 U
4,4'-DDD	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDE	ug/kg	2.8	2.2	1.1 J H	1.1 J H	0.57 J H	2	3.9
Endrin Aldehyde	ug/kg	1.2 U	1.2 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.80 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.12 J Z	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA8S-SS-0.0-0.5	SL-019-SA8S-SS-0.0-0.5	SL-020-SA8S-SS-0.0-0.5	SL-021-SA8S-SS-0.0-0.5	SL-022-SA8S-SS-0.0-0.5	SL-023-SA8S-SS-0.0-0.5	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/29/2011
SDG		DE259	DE259	DE259	DE259	DE259	DE259	DE258
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	0.61 J Z	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ L
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.6 U	9.6 U	9.5 U	9.6 U	9.4 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L
MCPP	ug/kg	260 U	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.20 J L
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	300	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4-D	ug/kg	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.8 U
2,4 DB	ug/kg	1.8 U	4	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	140 U	20 U	7.1 U	15 U	42 U	70 U	6.9 UJ H
Heptachlor Epoxide	ug/kg	9.6 U	0.17 U	0.18 U	0.18 U	0.18 U	0.40 J Z	0.17 UJ H
Endosulfan Sulfate	ug/kg	7.1 U	3.5 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Mirex	ug/kg	7.1 U	0.35 U	0.36 U	0.40 U	0.51 U	3.6 U	0.36 UJ H
Aldrin	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Alpha-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Beta-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Delta-BHC	ug/kg	3.5 U	1.3 U	0.72	1.7	1.2 U	12	0.17 UJ H
Endosulfan II	ug/kg	12 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDT	ug/kg	74 U	2.0 J S	1.1	1	1.9	3.0 J Z	0.94 J H
Endrin Ketone	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.34 U	3.6 U	0.36 UJ H
Chlordane	ug/kg	71 U	2.7 J S, Z	3.6 U	3.7	3.6	36 U	2.9 J H, Z
Gamma-BHC (Lindane)	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Dieldrin	ug/kg	25 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Endrin	ug/kg	8.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Methoxychlor	ug/kg	35 U	1.7 U	1.8 U	1.8 U	2.1 U	18 U	1.7 UJ H
4,4'-DDD	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDE	ug/kg	59 U	1.6 J S	1	1.4	2	4.3	0.62 J H
Endrin Aldehyde	ug/kg	7.1 U	0.99 U	0.40 U	0.69 U	2.2 U	3.7 U	0.36 UJ H
Heptachlor	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Endosulfan I	ug/kg	3.5 U	0.27 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 UJ Q
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Nitrophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chloroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Phenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	20 U	19 U B	18 U B	20 U	19 U	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Dimethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Benzo(g,h,i)perylene	ug/kg	1.8 U B	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(b)fluoranthene	ug/kg	3.8	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(k)fluoranthene	ug/kg	0.72 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Chrysene	ug/kg	1.1 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzo(a)pyrene	ug/kg	0.87 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 R Q	1000 U	1100 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Benzoic Acid	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Isophorone	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Acenaphthene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	16 J Z	20 U	20	18 U	20 U	20	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Carbazole	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Pentachlorophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	340 U	340 U	370 U	350 U	380 U
Benzidine	ug/kg	3500 U	3700 U	3400 R Q	3400 U	3700 U	3500 U	3800 UJ Q
2-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2-Chlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzyl Alcohol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 UJ Q
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	16 J Z	19 U B	20 U	6.8 J Z	19 U B	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.2	1.8 U	1.4 J Z	1.9 U	1.8 U	3.8	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	0.80 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.2 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.97 J Z	1.9 U
Benzo(b)fluoranthene	ug/kg	2.5	1.8 U	0.93 J Z	1.9 U	1.8 U	3.4	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	19 J Z	--
Fluoranthene (8270C SIM)	ug/kg	3.3	1.8 U	1.7 J Z	1.9 U	1.8 U	--	1.9 U
Benzo(k)fluoranthene	ug/kg	7.9	1.8 U	2.6	1.9 U	1.8 U	10	1.9 U
Acenaphthylene	ug/kg	0.48 J Z	1.8 U	1.8 U	1.9 U	1.8 U	0.37 J Z	1.9 U
Chrysene	ug/kg	2.7	1.8 U	1.0 J Z	1.9 U	1.8 U	3.9	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.5 J Z	1.8 U	0.75 J Z	1.9 U	1.8 U	1.8	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.0 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.3 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Benzoic Acid	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J Z	1.8 U	0.92 J Z	1.9 U	1.8 U	2.8	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	11 J Z	10 J Z	6.4 J Z	20 U	19 U	47	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Fluorene	ug/kg	0.84 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.95 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	350 U	380 U	360 U	360 U	380 U
Benzidine	ug/kg	3500 R Q	3600 U	3500 U	3800 U	3600 U	3600 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitrophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	20 J Z	23 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	19 U B	7.0 J Z	--	--	18 U B	19 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Anthracene	ug/kg	1.9 U	0.56 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	0.80 J Z	1.8 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(g,h,i)perylene	ug/kg	1.9 U	1.8	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.2 J Z	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Benzo(b)fluoranthene	ug/kg	1.9 U	8.6	1.8 U	0.97 J Z	1.8 U	5.3	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	12	1.8 U	1.8 U	1.8 U	1.3 J Z	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.6 J Z	1.8 U	1.8 U	1.8 U	0.41 J Z	1.8 U
Chrysene	ug/kg	1.9 U	18	1.8 U	1.8 U	1.8 U	0.89 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(a)pyrene	ug/kg	1.9 U	6.2	1.8 U	1.8 U	1.8 U	1.7	1.8 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.5 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	13	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Benzoic Acid	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Acenaphthene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	3.4	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	210	20 U	31	23	27	13 J Z
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Fluorene	ug/kg	1.9 U	2	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pentachlorophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.9 U	0.93 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	350 U	370 U	360 U	370 U	340 U	350 U
Benzidine	ug/kg	3800 U	3500 U	3700 U	3600 U	3700 U	3400 U	3500 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzyl Alcohol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitrophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Phenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	30 J Z
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	36 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	19 U	30	19 UJ S	19 U	20 U	--
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	44	19 UJ S	9.1 J Z	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Anthracene	ug/kg	0.42 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.8	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.1 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(b)fluoranthene	ug/kg	16	1.8 U	1.8 U	1.4 J S, Z	1.8 U	1.9 U	1.3 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.6	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7
Benzo(k)fluoranthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	4.7
Acenaphthylene	ug/kg	0.78 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Chrysene	ug/kg	2.7	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.6 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(a)pyrene	ug/kg	3.3	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(a)anthracene	ug/kg	4	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Aniline	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Benzoic Acid	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Isophorone	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	8.0 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.6 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	0.73 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	47	19 U	20 U	8.6 J S, Z	19 U	20 U	26
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Fluorene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Carbazole	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pentachlorophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U
Naphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	370 U	350 U	350 U	370 U	350 U
Benzidine	ug/kg	3500 U	3600 U	3700 U	3500 U	3500 U	3700 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzyl Alcohol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	230 J Z
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	27 J Z	--	21 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.5 J Z	--	34	--	20 U	14 J Z	18 U B
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	50	19 U	20 U	19 U	18 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.91 J Z	1.9 U	1.8 U	1.3 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	0.82 J Z	0.95 J Z	1.9 U	1.8 U	0.84 J Z
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	0.87 J Z	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.0 J Z	0.99 J Z	1.9 U	1.8 U	5.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.6 J Z	1.9 U	1.8 U	3
Benzo(k)fluoranthene	ug/kg	1.8 U	2	1.8 U	5	1.9 U	1.8 U	1.7 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	0.52 J Z
Chrysene	ug/kg	1.8 U	0.46 J Z	1.8 U	1.6 J Z	1.9 U	1.8 U	3.9
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.6 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.2 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Aniline	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Benzoic Acid	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Isophorone	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Di-n-Butylphthalate	ug/kg	8.2 J Z	19 U	20 U	19 U	20 U	19 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.88 J Z	1.9 U	1.8 U	0.81 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	210
Butylbenzylphthalate (8270C SIM)	ug/kg	13 J Z	19 U	20 U	19 U	20 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Fluorene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.1 J Z
Carbazole	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	0.75 J Z	1.9 U	1.8 U	1.7 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	340 U	370 U	350 U	340 U
Benzidine	ug/kg	3600 U	3600 U	3600 U	3400 U	3700 UJ Q	3500 U	3400 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	19 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	300 J S	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	35 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	6.8 J S	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.3 J Z	1.9 U	1.8 U	1.3 J S, Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.79 J Z	1.9 U	1.8 U	0.84 J S, Z	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.2 J Z	1.9 U	1.8 U	8.1 J S	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	49 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.5 J Z	--	1.8 U	14 J S	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	3.3	1.9 U	1.8 U	33 J S	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	5.5 J S	1.9 U
Chrysene	ug/kg	1.8 U	1.6 J Z	1.9 U	1.8 U	16 J S	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	0.75 J Z	1.9 U	1.8 U	7.6 J S	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	2.2 J S	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	19 J S	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Benzoic Acid	ug/kg	530 R Q	540 U	560 U	560 U	540 U	560 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	52 J Z	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	3.1 J S	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	220	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	220	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	0.74 J Z	1.9 U	1.8 U	5.2 J S	1.9 U
Carbazole	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.0 J S, Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	380 U	370 U	360 U	370 U
Benzidine	ug/kg	3500 R Q	3600 U	3800 U	3700 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U B	20 U	20 U	19 U	7.7 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.4 J Z	1.9 U	1.9 U	1.6 J Z	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	0.51 J Z	1.9 U	1.9 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Benzoic Acid	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	210	--	--	260	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U	350 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U	3500 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
N-Nitrosodimethylamine	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	520 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
Phenol	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	19 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	7.2 J Z	20 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	170 U	190 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	190 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	520 UJ L	560 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
Aniline	ug/kg	550 U	520 U	560 U	570 U
Benzoic Acid	ug/kg	550 U	520 UJ L	560 U	570 U
Hexachloroethane	ug/kg	180 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	520 U	560 U	570 U
Isophorone	ug/kg	180 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	190 U	190 U
Fluorene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	520 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	520 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/12/2011
Group Number: 1241643
SDG: DX068
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP01-SA8N-QC-041111 Soil	6255801
SL-001-SA8N-SS-0.0-0.5 Soil	6255802
SL-002-SA8N-SS-0.0-0.5 Soil	6255803
SL-003-SA8N-SS-0.0-0.5 Soil	6255804
SL-004-SA8N-SS-0.0-0.5 Soil	6255805
SL-005-SA8N-SS-0.0-0.5 Soil	6255806
SL-006-SA8N-SS-0.0-0.5 Soil	6255807
SL-007-SA8N-SS-0.0-0.5 Soil	6255808
SL-008-SA8N-SS-0.0-0.5 Soil	6255809
SL-009-SA8N-SS-0.0-0.5 Soil	6255810
SL-010-SA8N-SS-0.0-0.5 Soil	6255811
SL-011-SA8N-SS-0.0-0.5 Soil	6255812
SL-013-SA8N-SS-0.0-0.5 Soil	6255813
SL-013-SA8N-SS-0.0-0.5MS Soil	6255814
SL-013-SA8N-SS-0.0-0.5MSD Soil	6255815
SL-014-SA8N-SS-0.0-0.5 Soil	6255816
SL-017-SA8N-SS-0.0-0.5 Soil	6255817
SL-049-SA8N-SS-0.0-0.5 Soil	6255818

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
ELECTRONIC Data Package Group
COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0869	JQ	0.0363	1.16	1
11031	12378-PeCDD	40321-76-4	0.229	JBQ	0.0428	5.82	1
11031	123478-HxCDD	39227-28-6	0.396	JQ	0.0389	5.82	1
11031	123678-HxCDD	57653-85-7	1.60	JB	0.0381	5.82	1
11031	123789-HxCDD	19408-74-3	0.741	JB	0.0357	5.82	1
11031	1234678-HpCDD	35822-46-9	44.9	B	0.0644	5.82	1
11031	OCDD	3268-87-9	462	B	0.0440	11.6	1
11031	2378-TCDF	51207-31-9	0.250	JQ	0.0748	1.16	1
11031	12378-PeCDF	57117-41-6	0.372	JB	0.0329	5.82	1
11031	23478-PeCDF	57117-31-4	0.542	JB	0.0317	5.82	1
11031	123478-HxCDF	70648-26-9	3.07	JB	0.0521	5.82	1
11031	123678-HxCDF	57117-44-9	0.534	JB	0.0380	5.82	1
11031	123789-HxCDF	72918-21-9	0.302	JB	0.0289	5.82	1
11031	234678-HxCDF	60851-34-5	0.594	JB	0.0277	5.82	1
11031	1234678-HpCDF	67562-39-4	5.55	JB	0.0362	5.82	1
11031	1234789-HpCDF	55673-89-7	0.433	JB	0.0266	5.82	1
11031	OCDF	39001-02-0	8.03	JB	0.0234	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP01-SA8N-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/16/2011 00:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	JQ	0.0253	1.23	1
11031	12378-PeCDD	40321-76-4	0.116	JB	0.0360	6.17	1
11031	123478-HxCDD	39227-28-6	0.101	JQ	0.0272	6.17	1
11031	123678-HxCDD	57653-85-7	0.281	JBQ	0.0273	6.17	1
11031	123789-HxCDD	19408-74-3	0.225	JBQ	0.0241	6.17	1
11031	1234678-HpCDD	35822-46-9	4.19	JB	0.0277	6.17	1
11031	OCDD	3268-87-9	30.4	B	0.0204	12.3	1
11031	2378-TCDF	51207-31-9	0.0890	U	0.0890	1.23	1
11031	12378-PeCDF	57117-41-6	0.0332	U	0.0332	6.17	1
11031	23478-PeCDF	57117-31-4	0.791	JB	0.0343	6.17	1
11031	123478-HxCDF	70648-26-9	1.34	JB	0.0368	6.17	1
11031	123678-HxCDF	57117-44-9	0.198	JB	0.0276	6.17	1
11031	123789-HxCDF	72918-21-9	0.142	JB	0.0228	6.17	1
11031	234678-HxCDF	60851-34-5	0.239	JBQ	0.0214	6.17	1
11031	1234678-HpCDF	67562-39-4	0.824	JB	0.0152	6.17	1
11031	1234789-HpCDF	55673-89-7	0.117	JB	0.0145	6.17	1
11031	OCDF	39001-02-0	1.23	JB	0.0212	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/16/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0245	U	0.0245	1.24	1
11031	12378-PeCDD	40321-76-4	0.227	JB	0.0401	6.18	1
11031	123478-HxCDD	39227-28-6	0.217	JB	0.0297	6.18	1
11031	123678-HxCDD	57653-85-7	0.626	JB	0.0314	6.18	1
11031	123789-HxCDD	19408-74-3	0.462	JB	0.0306	6.18	1
11031	1234678-HpCDD	35822-46-9	11.3	B	0.0466	6.18	1
11031	OCDD	3268-87-9	95.4	B	0.0576	12.4	1
11031	2378-TCDF	51207-31-9	0.434	JB	0.0809	1.24	1
11031	12378-PeCDF	57117-41-6	2.88	JB	0.0325	6.18	1
11031	23478-PeCDF	57117-31-4	0.0343	U	0.0343	6.18	1
11031	123478-HxCDF	70648-26-9	0.648	JB	0.0265	6.18	1
11031	123678-HxCDF	57117-44-9	0.255	JB	0.0240	6.18	1
11031	123789-HxCDF	72918-21-9	0.152	JBQ	0.0309	6.18	1
11031	234678-HxCDF	60851-34-5	0.230	JB	0.0252	6.18	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0170	6.18	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0250	6.18	1
11031	OCDF	39001-02-0	2.03	JB	0.0440	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 16:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.23	1
11031	12378-PeCDD	40321-76-4	0.122	JBQ	0.0404	6.16	1
11031	123478-HxCDD	39227-28-6	0.188	JBQ	0.0241	6.16	1
11031	123678-HxCDD	57653-85-7	0.431	JB	0.0250	6.16	1
11031	123789-HxCDD	19408-74-3	0.294	JB	0.0251	6.16	1
11031	1234678-HpCDD	35822-46-9	6.26	B	0.0417	6.16	1
11031	OCDD	3268-87-9	42.1	B	0.0381	12.3	1
11031	2378-TCDF	51207-31-9	0.0861	U	0.0861	1.23	1
11031	12378-PeCDF	57117-41-6	2.70	JB	0.0345	6.16	1
11031	23478-PeCDF	57117-31-4	0.508	JB	0.0350	6.16	1
11031	123478-HxCDF	70648-26-9	0.550	JB	0.0272	6.16	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0246	6.16	1
11031	123789-HxCDF	72918-21-9	0.0741	JBQ	0.0296	6.16	1
11031	234678-HxCDF	60851-34-5	0.214	JB	0.0236	6.16	1
11031	1234678-HpCDF	67562-39-4	0.719	JB	0.0139	6.16	1
11031	1234789-HpCDF	55673-89-7	0.0862	JBQ	0.0208	6.16	1
11031	OCDF	39001-02-0	0.967	JBQ	0.0366	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 17:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182	U	0.0182	1.13	1
11031	12378-PeCDD	40321-76-4	0.166	JBQ	0.0309	5.67	1
11031	123478-HxCDD	39227-28-6	0.201	JB	0.0270	5.67	1
11031	123678-HxCDD	57653-85-7	0.639	JB	0.0279	5.67	1
11031	123789-HxCDD	19408-74-3	0.412	JBQ	0.0284	5.67	1
11031	1234678-HpCDD	35822-46-9	10.1	B	0.0374	5.67	1
11031	OCDD	3268-87-9	93.3	B	0.0453	11.3	1
11031	2378-TCDF	51207-31-9	0.466	JBQ	0.0678	1.13	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0268	5.67	1
11031	23478-PeCDF	57117-31-4	0.508	JBQ	0.0308	5.67	1
11031	123478-HxCDF	70648-26-9	0.495	JB	0.0227	5.67	1
11031	123678-HxCDF	57117-44-9	0.219	JBQ	0.0210	5.67	1
11031	123789-HxCDF	72918-21-9	0.140	JBQ	0.0275	5.67	1
11031	234678-HxCDF	60851-34-5	0.285	JBQ	0.0208	5.67	1
11031	1234678-HpCDF	67562-39-4	1.25	JB	0.0129	5.67	1
11031	1234789-HpCDF	55673-89-7	0.125	JBQ	0.0199	5.67	1
11031	OCDF	39001-02-0	1.98	JB	0.0286	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 18:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.512	JB	0.0341	1.05	1
11031	12378-PeCDD	40321-76-4	4.40	JB	0.0606	5.24	1
11031	123478-HxCDD	39227-28-6	5.95	B	0.0699	5.24	1
11031	123678-HxCDD	57653-85-7	31.1	B	0.0695	5.24	1
11031	123789-HxCDD	19408-74-3	12.8	B	0.0722	5.24	1
11031	1234678-HpCDD	35822-46-9	497	B	0.179	5.24	1
11031	OCDD	3268-87-9	3,720	B	0.118	10.5	1
11031	2378-TCDF	51207-31-9	1.36	B	0.0805	1.05	1
11650	2378-TCDF-Conf	51207-31-9	1.46	B	0.0569	1.05	1
11031	12378-PeCDF	57117-41-6	1.91	JB	0.0362	5.24	1
11031	23478-PeCDF	57117-31-4	27.0	B	0.0379	5.24	1
11031	123478-HxCDF	70648-26-9	4.17	JB	0.0703	5.24	1
11031	123678-HxCDF	57117-44-9	12.0	B	0.0626	5.24	1
11031	123789-HxCDF	72918-21-9	2.96	JB	0.0751	5.24	1
11031	234678-HxCDF	60851-34-5	21.2	B	0.0598	5.24	1
11031	1234678-HpCDF	67562-39-4	43.8	B	0.0394	5.24	1
11031	1234789-HpCDF	55673-89-7	2.68	JB	0.0616	5.24	1
11031	OCDF	39001-02-0	30.2	B	0.0383	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 19:23	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118002	05/09/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.144	JBQ	0.0275	1.12	1
11031	12378-PeCDD	40321-76-4	0.836	JB	0.0413	5.62	1
11031	123478-HxCDD	39227-28-6	1.11	JB	0.0440	5.62	1
11031	123678-HxCDD	57653-85-7	5.73	B	0.0450	5.62	1
11031	123789-HxCDD	19408-74-3	2.09	JB	0.0457	5.62	1
11031	1234678-HpCDD	35822-46-9	61.4	B	0.0910	5.62	1
11031	OCDD	3268-87-9	818	B	0.106	11.2	1
11031	2378-TCDF	51207-31-9	0.154	JB	0.0254	1.12	1
11031	12378-PeCDF	57117-41-6	0.514	JB	0.0178	5.62	1
11031	23478-PeCDF	57117-31-4	0.746	JB	0.0183	5.62	1
11031	123478-HxCDF	70648-26-9	0.797	JB	0.0296	5.62	1
11031	123678-HxCDF	57117-44-9	0.762	JB	0.0276	5.62	1
11031	123789-HxCDF	72918-21-9	0.372	JB	0.0326	5.62	1
11031	234678-HxCDF	60851-34-5	0.998	JB	0.0267	5.62	1
11031	1234678-HpCDF	67562-39-4	3.44	JB	0.0224	5.62	1
11031	1234789-HpCDF	55673-89-7	0.363	JB	0.0344	5.62	1
11031	OCDF	39001-02-0	1.88	JBQ	0.0345	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 20:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	JBQ	0.0275	1.20	1
11031	12378-PeCDD	40321-76-4	0.617	JB	0.0417	6.00	1
11031	123478-HxCDD	39227-28-6	0.529	JB	0.0356	6.00	1
11031	123678-HxCDD	57653-85-7	1.44	JB	0.0379	6.00	1
11031	123789-HxCDD	19408-74-3	0.846	JB	0.0363	6.00	1
11031	1234678-HpCDD	35822-46-9	17.5	B	0.0524	6.00	1
11031	OCDD	3268-87-9	127	B	0.0458	12.0	1
11031	2378-TCDF	51207-31-9	0.358	JBQ	0.0708	1.20	1
11031	12378-PeCDF	57117-41-6	0.716	JB	0.0291	6.00	1
11031	23478-PeCDF	57117-31-4	0.894	JBQ	0.0314	6.00	1
11031	123478-HxCDF	70648-26-9	0.869	JB	0.0315	6.00	1
11031	123678-HxCDF	57117-44-9	0.502	JB	0.0290	6.00	1
11031	123789-HxCDF	72918-21-9	0.359	JB	0.0326	6.00	1
11031	234678-HxCDF	60851-34-5	0.593	JB	0.0287	6.00	1
11031	1234678-HpCDF	67562-39-4	2.01	JB	0.0179	6.00	1
11031	1234789-HpCDF	55673-89-7	0.288	JB	0.0264	6.00	1
11031	OCDF	39001-02-0	2.40	JB	0.0280	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 21:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0723	JBQ	0.0134	1.08	1
11031	12378-PeCDD	40321-76-4	0.344	JB	0.0212	5.41	1
11031	123478-HxCDD	39227-28-6	0.309	JB	0.0413	5.41	1
11031	123678-HxCDD	57653-85-7	0.614	JB	0.0425	5.41	1
11031	123789-HxCDD	19408-74-3	0.454	JB	0.0402	5.41	1
11031	1234678-HpCDD	35822-46-9	8.75	B	0.0429	5.41	1
11031	OCDD	3268-87-9	91.1	B	0.0328	10.8	1
11031	2378-TCDF	51207-31-9	0.289	JB	0.0519	1.08	1
11031	12378-PeCDF	57117-41-6	0.358	JBQ	0.0231	5.41	1
11031	23478-PeCDF	57117-31-4	0.564	JB	0.0250	5.41	1
11031	123478-HxCDF	70648-26-9	0.817	JB	0.0424	5.41	1
11031	123678-HxCDF	57117-44-9	0.332	JB	0.0364	5.41	1
11031	123789-HxCDF	72918-21-9	0.326	JB	0.0438	5.41	1
11031	234678-HxCDF	60851-34-5	0.377	JBQ	0.0365	5.41	1
11031	1234678-HpCDF	67562-39-4	1.69	JB	0.0212	5.41	1
11031	1234789-HpCDF	55673-89-7	0.297	JB	0.0323	5.41	1
11031	OCDF	39001-02-0	2.40	JB	0.0373	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 17:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0637 JBQ	0.0162	1.15	1
11031	12378-PeCDD	40321-76-4	0.0767 JB	0.0210	5.77	1
11031	123478-HxCDD	39227-28-6	0.0419 JB	0.0209	5.77	1
11031	123678-HxCDD	57653-85-7	0.126 JB	0.0215	5.77	1
11031	123789-HxCDD	19408-74-3	0.0828 JB	0.0214	5.77	1
11031	1234678-HpCDD	35822-46-9	1.58 JB	0.0477	5.77	1
11031	OCDD	3268-87-9	9.40 JB	0.0274	11.5	1
11031	2378-TCDF	51207-31-9	0.0588 JB	0.0189	1.15	1
11031	12378-PeCDF	57117-41-6	0.185 JB	0.0165	5.77	1
11031	23478-PeCDF	57117-31-4	0.211 JB	0.0167	5.77	1
11031	123478-HxCDF	70648-26-9	0.294 JB	0.0202	5.77	1
11031	123678-HxCDF	57117-44-9	0.0780 JBQ	0.0195	5.77	1
11031	123789-HxCDF	72918-21-9	0.101 JB	0.0202	5.77	1
11031	234678-HxCDF	60851-34-5	0.0900 JBQ	0.0181	5.77	1
11031	1234678-HpCDF	67562-39-4	0.293 JBQ	0.0159	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0682 JB	0.0198	5.77	1
11031	OCDF	39001-02-0	0.370 JB	0.0278	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 18:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0488	JB	0.0185	1.14	1
11031	12378-PeCDD	40321-76-4	0.219	JB	0.0243	5.71	1
11031	123478-HxCDD	39227-28-6	0.139	JB	0.0414	5.71	1
11031	123678-HxCDD	57653-85-7	0.473	JB	0.0373	5.71	1
11031	123789-HxCDD	19408-74-3	0.373	JB	0.0331	5.71	1
11031	1234678-HpCDD	35822-46-9	8.36	B	0.0383	5.71	1
11031	OCDD	3268-87-9	72.8	B	0.0430	11.4	1
11031	2378-TCDF	51207-31-9	0.197	JB	0.0857	1.14	1
11031	12378-PeCDF	57117-41-6	0.193	JB	0.0286	5.71	1
11031	23478-PeCDF	57117-31-4	0.531	JB	0.0307	5.71	1
11031	123478-HxCDF	70648-26-9	2.08	JB	0.0841	5.71	1
11031	123678-HxCDF	57117-44-9	0.203	JBQ	0.0559	5.71	1
11031	123789-HxCDF	72918-21-9	0.277	JB	0.0376	5.71	1
11031	234678-HxCDF	60851-34-5	0.258	JB	0.0310	5.71	1
11031	1234678-HpCDF	67562-39-4	1.64	JB	0.0358	5.71	1
11031	1234789-HpCDF	55673-89-7	0.196	JB	0.0297	5.71	1
11031	OCDF	39001-02-0	2.55	JB	0.0296	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/26/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.18	1
11031	12378-PeCDD	40321-76-4	0.204	JB	0.0364	5.90	1
11031	123478-HxCDD	39227-28-6	0.294	JBQ	0.0668	5.90	1
11031	123678-HxCDD	57653-85-7	1.25	JB	0.0645	5.90	1
11031	123789-HxCDD	19408-74-3	0.770	JB	0.0512	5.90	1
11031	1234678-HpCDD	35822-46-9	26.0	B	0.0738	5.90	1
11031	OCDD	3268-87-9	267	B	0.0668	11.8	1
11031	2378-TCDF	51207-31-9	2.34	B	0.230	1.18	1
11650	2378-TCDF-Conf	51207-31-9	1.02	J	0.0469	1.18	1
11031	12378-PeCDF	57117-41-6	0.322	JB	0.0645	5.90	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0684	5.90	1
11031	123478-HxCDF	70648-26-9	3.51	JB	0.121	5.90	1
11031	123678-HxCDF	57117-44-9	0.416	JB	0.0857	5.90	1
11031	123789-HxCDF	72918-21-9	0.311	JBQ	0.0666	5.90	1
11031	234678-HxCDF	60851-34-5	0.412	JB	0.0473	5.90	1
11031	1234678-HpCDF	67562-39-4	3.62	JB	0.0512	5.90	1
11031	1234789-HpCDF	55673-89-7	0.284	JB	0.0456	5.90	1
11031	OCDF	39001-02-0	9.14	JB	0.0449	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-2378-TCDF-Conf	60	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/26/2011 17:29	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11111001	04/29/2011 10:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0327	JBQ	0.0174	1.15	1
11031	12378-PeCDD	40321-76-4	0.246	JB	0.0518	5.74	1
11031	123478-HxCDD	39227-28-6	0.425	JB	0.0725	5.74	1
11031	123678-HxCDD	57653-85-7	2.14	JB	0.0734	5.74	1
11031	123789-HxCDD	19408-74-3	0.863	JB	0.0710	5.74	1
11031	1234678-HpCDD	35822-46-9	61.6	B	0.0977	5.74	1
11031	OCDD	3268-87-9	672	B	0.0811	11.5	1
11031	2378-TCDF	51207-31-9	0.476	JB	0.0839	1.15	1
11031	12378-PeCDF	57117-41-6	0.238	JB	0.0430	5.74	1
11031	23478-PeCDF	57117-31-4	0.761	JB	0.0427	5.74	1
11031	123478-HxCDF	70648-26-9	2.22	JB	0.0669	5.74	1
11031	123678-HxCDF	57117-44-9	0.557	JB	0.0606	5.74	1
11031	123789-HxCDF	72918-21-9	0.363	JB	0.0652	5.74	1
11031	234678-HxCDF	60851-34-5	0.701	JB	0.0571	5.74	1
11031	1234678-HpCDF	67562-39-4	7.59	B	0.0425	5.74	1
11031	1234789-HpCDF	55673-89-7	0.542	JB	0.0505	5.74	1
11031	OCDF	39001-02-0	11.3	JB	0.0377	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 19:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4	B	0.0259	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.0729	5.75	1
11031	123478-HxCDD	39227-28-6	120	B	0.0597	5.75	1
11031	123678-HxCDD	57653-85-7	119	B	0.0619	5.75	1
11031	123789-HxCDD	19408-74-3	117	B	0.0611	5.75	1
11031	1234678-HpCDD	35822-46-9	175	B	0.110	5.75	1
11031	OCDD	3268-87-9	828	B	0.0704	11.5	1
11031	2378-TCDF	51207-31-9	23.3	B	0.0777	1.15	1
11031	12378-PeCDF	57117-41-6	115	B	0.0472	5.75	1
11031	23478-PeCDF	57117-31-4	115	B	0.0472	5.75	1
11031	123478-HxCDF	70648-26-9	118	B	0.0652	5.75	1
11031	123678-HxCDF	57117-44-9	115	B	0.0624	5.75	1
11031	123789-HxCDF	72918-21-9	115	B	0.0696	5.75	1
11031	234678-HxCDF	60851-34-5	117	B	0.0602	5.75	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0513	5.75	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0624	5.75	1
11031	OCDF	39001-02-0	256	B	0.0524	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 20:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.5	B	0.0298	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.0505	5.77	1
11031	123478-HxCDD	39227-28-6	119	B	0.0618	5.77	1
11031	123678-HxCDD	57653-85-7	119	B	0.0618	5.77	1
11031	123789-HxCDD	19408-74-3	117	B	0.0618	5.77	1
11031	1234678-HpCDD	35822-46-9	152	B	0.0916	5.77	1
11031	OCDD	3268-87-9	570	B	0.0740	11.5	1
11031	2378-TCDF	51207-31-9	23.7	B	0.0703	1.15	1
11031	12378-PeCDF	57117-41-6	117	B	0.0468	5.77	1
11031	23478-PeCDF	57117-31-4	118	B	0.0465	5.77	1
11031	123478-HxCDF	70648-26-9	117	B	0.0679	5.77	1
11031	123678-HxCDF	57117-44-9	115	B	0.0642	5.77	1
11031	123789-HxCDF	72918-21-9	116	B	0.0733	5.77	1
11031	234678-HxCDF	60851-34-5	119	B	0.0617	5.77	1
11031	1234678-HpCDF	67562-39-4	122	B	0.0604	5.77	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0812	5.77	1
11031	OCDF	39001-02-0	252	B	0.0582	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 21:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217 JBQ	0.0115	1.14	1
11031	12378-PeCDD	40321-76-4	0.0775 JB	0.0137	5.68	1
11031	123478-HxCDD	39227-28-6	0.0699 JBQ	0.0195	5.68	1
11031	123678-HxCDD	57653-85-7	0.132 JB	0.0207	5.68	1
11031	123789-HxCDD	19408-74-3	0.124 JBQ	0.0200	5.68	1
11031	1234678-HpCDD	35822-46-9	1.69 JB	0.0301	5.68	1
11031	OCDD	3268-87-9	11.2 JB	0.0259	11.4	1
11031	2378-TCDF	51207-31-9	0.0809 JB	0.0180	1.14	1
11031	12378-PeCDF	57117-41-6	0.0723 JB	0.0103	5.68	1
11031	23478-PeCDF	57117-31-4	0.170 JB	0.0117	5.68	1
11031	123478-HxCDF	70648-26-9	0.170 JB	0.0164	5.68	1
11031	123678-HxCDF	57117-44-9	0.0666 JB	0.0137	5.68	1
11031	123789-HxCDF	72918-21-9	0.116 JB	0.0187	5.68	1
11031	234678-HxCDF	60851-34-5	0.131 JB	0.0142	5.68	1
11031	1234678-HpCDF	67562-39-4	0.334 JB	0.0117	5.68	1
11031	1234789-HpCDF	55673-89-7	0.115 JB	0.0222	5.68	1
11031	OCDF	39001-02-0	0.563 JBQ	0.0282	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 22:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265	U	0.0265	1.09	1
11031	12378-PeCDD	40321-76-4	0.215	JB	0.0328	5.45	1
11031	123478-HxCDD	39227-28-6	0.181	J	0.0314	5.45	1
11031	123678-HxCDD	57653-85-7	0.615	JB	0.0298	5.45	1
11031	123789-HxCDD	19408-74-3	0.459	JB	0.0251	5.45	1
11031	1234678-HpCDD	35822-46-9	6.43	B	0.0309	5.45	1
11031	OCDD	3268-87-9	53.4	B	0.0230	10.9	1
11031	2378-TCDF	51207-31-9	0.588	J	0.0638	1.09	1
11031	12378-PeCDF	57117-41-6	0.235	JBQ	0.0246	5.45	1
11031	23478-PeCDF	57117-31-4	1.13	JB	0.0265	5.45	1
11031	123478-HxCDF	70648-26-9	0.956	JB	0.0449	5.45	1
11031	123678-HxCDF	57117-44-9	0.346	JB	0.0321	5.45	1
11031	123789-HxCDF	72918-21-9	0.250	JB	0.0210	5.45	1
11031	234678-HxCDF	60851-34-5	0.473	JB	0.0200	5.45	1
11031	1234678-HpCDF	67562-39-4	1.45	JB	0.0209	5.45	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0156	5.45	1
11031	OCDF	39001-02-0	2.89	JB	0.0214	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	109	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	94	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/17/2011 07:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0233	U	0.0233	1.07	1
11031	12378-PeCDD	40321-76-4	0.0883	JBQ	0.0289	5.36	1
11031	123478-HxCDD	39227-28-6	0.108	J	0.0276	5.36	1
11031	123678-HxCDD	57653-85-7	0.176	JB	0.0262	5.36	1
11031	123789-HxCDD	19408-74-3	0.176	JB	0.0223	5.36	1
11031	1234678-HpCDD	35822-46-9	3.03	JB	0.0268	5.36	1
11031	OCDD	3268-87-9	32.0	B	0.0256	10.7	1
11031	2378-TCDF	51207-31-9	0.216	J	0.0426	1.07	1
11031	12378-PeCDF	57117-41-6	0.0194	U	0.0194	5.36	1
11031	23478-PeCDF	57117-31-4	0.240	JB	0.0204	5.36	1
11031	123478-HxCDF	70648-26-9	0.527	JB	0.0399	5.36	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0291	5.36	1
11031	123789-HxCDF	72918-21-9	0.0944	JBQ	0.0168	5.36	1
11031	234678-HxCDF	60851-34-5	0.0850	JB	0.0165	5.36	1
11031	1234678-HpCDF	67562-39-4	0.688	JB	0.0258	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0886	JBQ	0.0178	5.36	1
11031	OCDF	39001-02-0	2.30	JB	0.0259	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-049-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/17/2011 08:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109162401B	Sample number(s): 6255801-6255804,6255808-6255809,6255813-6255817								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401A	Sample number(s): 6255805-6255807,6255810-6255812,6255818								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11103001	Sample number(s): 6255801-6255802,6255817-6255818								
2378-TCDD	0.0296 U	0.0296	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0576 J	0.0308	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0271 U	0.0271	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0356 J	0.0243	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.206 J	0.0255	5.00	ng/kg	102		70-140		
OCDD	0.626 J	0.0217	10.0	ng/kg	101		78-144		
2378-TCDF	0.0299 U	0.0299	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0410 J	0.0146	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0825 J	0.0150	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0963 J	0.0385	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0678 J	0.0256	5.00	ng/kg	104		84-130		
123789-HxCDF	0.0928 J	0.0153	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0800 J	0.0128	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.261 J	0.0186	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0607 J	0.0110	5.00	ng/kg	101		78-138		
OCDF	0.185 J	0.0260	10.0	ng/kg	100		63-170		
Batch number: 11111001	Sample number(s): 6255811-6255812								
2378-TCDD	0.0407 J	0.0150	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0378 J	0.0115	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0291 J	0.0102	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0354 J	0.0100	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0670 J	0.00980	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.214 J	0.0159	5.00	ng/kg	106		70-140		
OCDD	0.583 J	0.0220	10.0	ng/kg	107		78-144		
2378-TCDF	0.0156 J	0.0116	1.00	ng/kg	121		75-158		
2378-TCDF-Conf	0.0308 U	0.0308	1.00	ng/kg					
12378-PeCDF	0.0460 J	0.00670	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0785 J	0.00700	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0546 J	0.0159	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0424 J	0.0103	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0880 J	0.0135	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0497 J	0.00810	5.00	ng/kg	109		70-156		
1234678-HpCDF	0.123 J	0.0112	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0603 J	0.0157	5.00	ng/kg	108		78-138		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.155	J	0.0232	10.0	ng/kg	110		63-170		
Batch number: 11118002	Sample number(s): 6255803-6255810,6255813-6255816									
2378-TCDD	0.155	J	0.0203	1.00	ng/kg	102		67-158		
12378-PeCDD	0.603	J	0.0251	5.00	ng/kg	102		70-142		
123478-HxCDD	0.301	J	0.0181	5.00	ng/kg	100		70-164		
123678-HxCDD	0.282	J	0.0186	5.00	ng/kg	101		76-134		
123789-HxCDD	0.266	J	0.0171	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.297	J	0.0169	5.00	ng/kg	99		70-140		
OCDD	0.436	J	0.0192	10.0	ng/kg	97		78-144		
2378-TCDF	0.160	J	0.0190	1.00	ng/kg	106		75-158		
2378-TCDF-Conf	0.188	J	0.0454	1.00	ng/kg					
12378-PeCDF	0.683	J	0.0116	5.00	ng/kg	97		80-134		
23478-PeCDF	0.570	J	0.0112	5.00	ng/kg	96		68-160		
123478-HxCDF	0.388	J	0.0207	5.00	ng/kg	93		72-134		
123678-HxCDF	0.383	J	0.0181	5.00	ng/kg	97		84-130		
123789-HxCDF	0.292	J	0.0130	5.00	ng/kg	95		78-130		
234678-HxCDF	0.306	J	0.0126	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.265	J	0.00910	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.143	J	0.0100	5.00	ng/kg	98		78-138		
OCDF	0.269	J	0.0207	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109162401B	Sample number(s): 6255801-6255804,6255808-6255809,6255813-6255817 BKG: P255794								
Moisture Content by 160.3						13.9	14.9	7	20
Batch number: 11126162401A	Sample number(s): 6255805-6255807,6255810-6255812,6255818 BKG: P255761								
Moisture Content by 160.3						15.3	14.3	6	20
Batch number: 11118002	Sample number(s): 6255803-6255810,6255813-6255816 UNSPK: 6255813								
2378-TCDD	97	97	67-158	1	25				
12378-PeCDD	102	101	70-142	0	25				
123478-HxCDD	104	103	70-164	1	25				
123678-HxCDD	102	102	76-134	0	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	99	78	70-140	14	25				
OCDD	68*	-43*	78-144	37*	25				
2378-TCDF	99	101	75-158	2	25				
12378-PeCDF	99	101	80-134	2	25				
23478-PeCDF	100	101	68-160	2	25				
123478-HxCDF	101	99	72-134	1	25				
123678-HxCDF	99	99	84-130	0	25				
123789-HxCDF	100	100	78-130	1	25				
234678-HxCDF	101	102	70-156	1	25				
1234678-HpCDF	101	99	82-122	2	25				
1234789-HpCDF	102	102	78-138	1	25				
OCDF	106	104	63-170	2	25				

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11103001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255801	80	80	41	55	78	86
6255802	76	73	42	56	71	73
6255817	90	87	41	56	90	102
6255818	84	75	34	47	78	86
Blank	83	72	28	39	78	80
OPR	77	66	23	33	71	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255801	56	88	92	90	82	76
6255802	60	72	77	91	78	71
6255817	61	96	94	102	92	86
6255818	47	78	70	93	80	69
Blank	41	82	76	98	79	61
OPR	35	76	70	86	74	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255801	79	83	90	98	80	84
6255802	75	81	80	88	73	81
6255817	91	109	99	107	90	99
6255818	80	89	84	81	81	85
Blank	72	85	86	90	75	79
OPR	62	76	79	84	69	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11111001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255811	74	71	28	41	75	68
6255812	67	66	27	38	70	56
Blank	70	71	40	60	75	51
OPR	63	63	27	45	66	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255811	45	64	57	86	77	63

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

6255812	40	54	42	76	71	57
Blank	68	56	49	99	83	80
OPR	53	48	41	87	75	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255811	72	79	74	70	72	80
6255812	63	75	65	59	66	73
Blank	83	84	79	72	66	83
OPR	75	77	75	67	57	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6255811	
6255812	60
Blank	68
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255803	75	73	67	74	69	66
6255804	78	75	70	75	77	70
6255805	82	76	71	76	72	64
6255806	79	75	67	72	71	68
6255807	72	76	69	73	72	71
6255808	74	73	68	74	70	74
6255809	86	85	79	89	87	81
6255810	74	72	70	72	76	77
6255813	84	82	73	77	81	80
6255814	86	83	80	82	85	82
6255815	82	81	78	81	82	78
6255816	74	69	63	74	71	60
Blank	69	72	42	47	69	73
MS	86	83	80	82	85	82
MSD	82	81	78	81	82	78
OPR	71	69	44	48	68	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255803	73	59	47	90	77	76
6255804	79	61	50	90	77	91
6255805	76	58	48	94	82	82
6255806	79	63	53	86	80	80
6255807	81	65	55	91	81	82
6255808	84	66	60	88	78	80
6255809	106	76	70	100	91	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

6255810	78	72	68	79	75	82
6255813	81	76	70	90	84	86
6255814	86	79	74	91	86	90
6255815	85	74	69	91	85	90
6255816	90	54	46	85	77	84
Blank	63	69	64	91	76	72
MS	86	79	74	91	86	90
MSD	85	74	69	91	85	90
OPR	58	60	50	89	72	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255803	78	77	73	61	72	85
6255804	95	91	77	65	77	84
6255805	82	78	72	62	79	93
6255806	82	79	80	72	75	86
6255807	83	81	80	72	73	87
6255808	78	79	82	80	73	85
6255809	94	94	92	90	81	98
6255810	83	79	77	75	72	78
6255813	84	84	83	78	81	87
6255814	91	88	85	82	81	88
6255815	88	87	82	79	79	87
6255816	79	78	74	70	68	83
Blank	72	77	83	82	66	76
MS	91	88	85	82	81	88
MSD	88	87	82	79	79	87
OPR	69	80	75	68	69	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6255803	
6255804	
6255805	
6255806	70
6255807	
6255808	
6255809	
6255810	
6255813	
6255814	
6255815	
6255816	
Blank	64
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
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13013 1241643 6255801-18

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X								X		
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1 SS sleeve			X	X															
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1 SS sleeve			X	X															
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	1 SS sleeve			X	X															
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	1 SS sleeve			X	X															
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1 SS sleeve			X	X															
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1 SS sleeve			X	X															
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	1 SS sleeve			X	X															
SL-010-SA8N-SS-0.0-0.5	04.11.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SS-0.0-0.5	04.11.11	1256	SOIL	NONE	1 SS sleeve			X	X															
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	1 SS sleeve			X	X															
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X									X		MS/MSD
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	2 SS sleeves			X	X															MS/MSD

Relinquished by: (*Signature*)	Date/Time 04/11/2011 / 1700	Received for Laboratory by: (*Signature*) Gary Yuhl 4/12/11 1020	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 3596; 8596 1432 3600 8695 1432 3611; 8596 1432 3780	

13013

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stacy Britch																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X									X		
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	1 SS sleeve			X	X															
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X									X		
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	1 SS sleeve			X	X															
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	1 SS sleeve			X	X															
Relinquished by: (Signature)	Date/Time 04/11/2011 / 1700		Received for Laboratory by: (Signature)																					Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 3596; 8695 1432 3600																					

4/12/11/1020

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/14/2011
Group Number: 1242145
SDG: DX070
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP02-SA8N-QC-041311 Soil	6257895
SL-027-SA8N-SS-0.0-0.5 Soil	6257896
SL-027-SA8N-SS-0.0-0.5MS Soil	6257897
SL-027-SA8N-SS-0.0-0.5MSD Soil	6257898
SL-028-SA8N-SS-0.0-0.5 Soil	6257899
SL-032-SA8N-SS-0.0-0.5 Soil	6257900
SL-046-SA8N-SS-0.0-0.5 Soil	6257901
EB02-SA8N-SS-041311 Water	6257902
SL-060-SA5A-SB-4.0-5.0 Soil	6257903
SL-060-SA5A-SB-8.0-9.0 Soil	6257904
SL-061-SA5A-SB-4.0-5.0 Soil	6257905
SL-204-SA5A-SB-4.0-5.0 Soil	6257906
SL-205-SA5A-SB-4.0-5.0 Soil	6257907
SL-205-SA5A-SB-8.0-9.0 Soil	6257908

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.358	JQ	0.0363	1.15	1
11031	12378-PeCDD	40321-76-4	1.18	JB	0.0562	5.74	1
11031	123478-HxCDD	39227-28-6	0.823	JB	0.0469	5.74	1
11031	123678-HxCDD	57653-85-7	3.10	JB	0.0478	5.74	1
11031	123789-HxCDD	19408-74-3	2.28	JB	0.0448	5.74	1
11031	1234678-HpCDD	35822-46-9	67.7	B	0.0677	5.74	1
11031	OCDD	3268-87-9	523	B	0.0670	11.5	1
11031	2378-TCDF	51207-31-9	1.24		0.103	1.15	1
11650	2378-TCDF-Conf	51207-31-9	1.23		0.103	1.15	1
11031	12378-PeCDF	57117-41-6	0.869	J	0.0363	5.74	1
11031	23478-PeCDF	57117-31-4	0.843	JB	0.0387	5.74	1
11031	123478-HxCDF	70648-26-9	1.59	JB	0.0441	5.74	1
11031	123678-HxCDF	57117-44-9	0.665	JB	0.0321	5.74	1
11031	123789-HxCDF	72918-21-9	0.270	J	0.0342	5.74	1
11031	234678-HxCDF	60851-34-5	0.676	JB	0.0329	5.74	1
11031	1234678-HpCDF	67562-39-4	7.56	B	0.0436	5.74	1
11031	1234789-HpCDF	55673-89-7	0.637	JB	0.0606	5.74	1
11031	OCDF	39001-02-0	18.7	B	0.0331	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	55	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257895
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7001 SDG#: DX070-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 08:46	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11105002	04/22/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.434	J	0.0261	1.15	1
11031	12378-PeCDD	40321-76-4	1.27	JB	0.0650	5.77	1
11031	123478-HxCDD	39227-28-6	0.989	JB	0.0804	5.77	1
11031	123678-HxCDD	57653-85-7	4.59	JB	0.0821	5.77	1
11031	123789-HxCDD	19408-74-3	2.45	JB	0.0768	5.77	1
11031	1234678-HpCDD	35822-46-9	104	B	0.136	5.77	1
11031	OCDD	3268-87-9	866	B	0.0849	11.5	1
11031	2378-TCDF	51207-31-9	1.43		0.0868	1.15	1
11650	2378-TCDF-Conf	51207-31-9	1.30		0.0413	1.15	1
11031	12378-PeCDF	57117-41-6	0.493	JB	0.0346	5.77	1
11031	23478-PeCDF	57117-31-4	0.993	JB	0.0368	5.77	1
11031	123478-HxCDF	70648-26-9	2.17	JB	0.0645	5.77	1
11031	123678-HxCDF	57117-44-9	1.09	JB	0.0558	5.77	1
11031	123789-HxCDF	72918-21-9	0.275	JBQ	0.0518	5.77	1
11031	234678-HxCDF	60851-34-5	0.966	JB	0.0430	5.77	1
11031	1234678-HpCDF	67562-39-4	24.4	B	0.0614	5.77	1
11031	1234789-HpCDF	55673-89-7	1.65	JB	0.0781	5.77	1
11031	OCDF	39001-02-0	72.7	B	0.0396	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257896
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 10:01	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118003	05/10/2011 03:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7		0.0432	1.15	1
11031	12378-PeCDD	40321-76-4	118	B	0.0853	5.73	1
11031	123478-HxCDD	39227-28-6	122	B	0.0969	5.73	1
11031	123678-HxCDD	57653-85-7	120	B	0.102	5.73	1
11031	123789-HxCDD	19408-74-3	118	B	0.0940	5.73	1
11031	1234678-HpCDD	35822-46-9	201	B	0.129	5.73	1
11031	OCDD	3268-87-9	964	B	0.101	11.5	1
11031	2378-TCDF	51207-31-9	24.9		0.106	1.15	1
11031	12378-PeCDF	57117-41-6	116	B	0.0498	5.73	1
11031	23478-PeCDF	57117-31-4	115	B	0.0517	5.73	1
11031	123478-HxCDF	70648-26-9	120	B	0.0788	5.73	1
11031	123678-HxCDF	57117-44-9	117	B	0.0712	5.73	1
11031	123789-HxCDF	72918-21-9	115	B	0.0715	5.73	1
11031	234678-HxCDF	60851-34-5	117	B	0.0597	5.73	1
11031	1234678-HpCDF	67562-39-4	130	B	0.0697	5.73	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0850	5.73	1
11031	OCDF	39001-02-0	277	B	0.0685	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257897
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 10:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0419	1.18	1
11031	12378-PeCDD	40321-76-4	120	B	0.0790	5.89	1
11031	123478-HxCDD	39227-28-6	121	B	0.138	5.89	1
11031	123678-HxCDD	57653-85-7	123	B	0.145	5.89	1
11031	123789-HxCDD	19408-74-3	121	B	0.136	5.89	1
11031	1234678-HpCDD	35822-46-9	191	B	0.146	5.89	1
11031	OCDD	3268-87-9	860	B	0.0906	11.8	1
11031	2378-TCDF	51207-31-9	25.5		0.123	1.18	1
11031	12378-PeCDF	57117-41-6	117	B	0.0547	5.89	1
11031	23478-PeCDF	57117-31-4	118	B	0.0555	5.89	1
11031	123478-HxCDF	70648-26-9	121	B	0.0787	5.89	1
11031	123678-HxCDF	57117-44-9	116	B	0.0662	5.89	1
11031	123789-HxCDF	72918-21-9	116	B	0.0743	5.89	1
11031	234678-HxCDF	60851-34-5	121	B	0.0671	5.89	1
11031	1234678-HpCDF	67562-39-4	128	B	0.0730	5.89	1
11031	1234789-HpCDF	55673-89-7	119	B	0.106	5.89	1
11031	OCDF	39001-02-0	269	B	0.0726	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257898
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7002 SDG#: DX070-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 16:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.11		0.145	1.19	1
11031	12378-PeCDD	40321-76-4	7.19	B	0.158	5.93	1
11031	123478-HxCDD	39227-28-6	5.22	JB	0.134	5.93	1
11031	123678-HxCDD	57653-85-7	17.0	B	0.138	5.93	1
11031	123789-HxCDD	19408-74-3	14.5	B	0.125	5.93	1
11031	1234678-HpCDD	35822-46-9	465	B	0.272	5.93	1
11031	OCDD	3268-87-9	5,190	EB	0.203	11.9	1
11031	2378-TCDF	51207-31-9	2.45		0.143	1.19	1
11650	2378-TCDF-Conf	51207-31-9	2.18		0.0801	1.19	1
11031	12378-PeCDF	57117-41-6	2.68	JB	0.0672	5.93	1
11031	23478-PeCDF	57117-31-4	3.43	JB	0.0692	5.93	1
11031	123478-HxCDF	70648-26-9	4.62	JB	0.0864	5.93	1
11031	123678-HxCDF	57117-44-9	2.95	JB	0.0808	5.93	1
11031	123789-HxCDF	72918-21-9	1.34	JB	0.0757	5.93	1
11031	234678-HxCDF	60851-34-5	2.59	JB	0.0650	5.93	1
11031	1234678-HpCDF	67562-39-4	26.9	B	0.0769	5.93	1
11031	1234789-HpCDF	55673-89-7	2.36	JB	0.0886	5.93	1
11031	OCDF	39001-02-0	64.8	B	0.0501	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257899
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7003 SDG#: DX070-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118003	05/03/2011 12:50	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118003	05/10/2011 04:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118003	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.448	J	0.0653	1.08	1
11031	12378-PeCDD	40321-76-4	2.09	JB	0.0771	5.38	1
11031	123478-HxCDD	39227-28-6	3.11	JB	0.0677	5.38	1
11031	123678-HxCDD	57653-85-7	17.7	B	0.0657	5.38	1
11031	123789-HxCDD	19408-74-3	8.29	B	0.0564	5.38	1
11031	1234678-HpCDD	35822-46-9	636	B	0.145	5.38	1
11031	OCDD	3268-87-9	3,680	B	0.0965	10.8	1
11031	2378-TCDF	51207-31-9	0.963	J	0.0855	1.08	1
11031	12378-PeCDF	57117-41-6	1.98	J	0.0299	5.38	1
11031	23478-PeCDF	57117-31-4	1.16	JB	0.0336	5.38	1
11031	123478-HxCDF	70648-26-9	1.90	JB	0.0659	5.38	1
11031	123678-HxCDF	57117-44-9	1.88	JB	0.0502	5.38	1
11031	123789-HxCDF	72918-21-9	0.625	J	0.0373	5.38	1
11031	234678-HxCDF	60851-34-5	2.35	JB	0.0349	5.38	1
11031	1234678-HpCDF	67562-39-4	32.8	B	0.0495	5.38	1
11031	1234789-HpCDF	55673-89-7	3.08	JB	0.0434	5.38	1
11031	OCDF	39001-02-0	75.9	B	0.0320	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257900
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7004 SDG#: DX070-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0715	JQ	0.0425	1.09	1
11031	12378-PeCDD	40321-76-4	0.342	JBQ	0.0440	5.46	1
11031	123478-HxCDD	39227-28-6	0.458	JB	0.0445	5.46	1
11031	123678-HxCDD	57653-85-7	1.14	JBQ	0.0468	5.46	1
11031	123789-HxCDD	19408-74-3	1.01	JB	0.0436	5.46	1
11031	1234678-HpCDD	35822-46-9	32.9	B	0.0633	5.46	1
11031	OCDD	3268-87-9	284	B	0.0461	10.9	1
11031	2378-TCDF	51207-31-9	0.233	JQ	0.0830	1.09	1
11031	12378-PeCDF	57117-41-6	0.628	J	0.0329	5.46	1
11031	23478-PeCDF	57117-31-4	0.500	JB	0.0362	5.46	1
11031	123478-HxCDF	70648-26-9	0.623	JBQ	0.0323	5.46	1
11031	123678-HxCDF	57117-44-9	0.454	JB	0.0262	5.46	1
11031	123789-HxCDF	72918-21-9	0.285	J	0.0297	5.46	1
11031	234678-HxCDF	60851-34-5	0.561	JB	0.0283	5.46	1
11031	1234678-HpCDF	67562-39-4	8.55	B	0.0244	5.46	1
11031	1234789-HpCDF	55673-89-7	0.499	JB	0.0364	5.46	1
11031	OCDF	39001-02-0	19.4	B	0.0406	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257901
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7005 SDG#: DX070-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 17:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA8N-SS-041311 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257902
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7006 SDG#: DX070-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.180	U	0.180	2.03	1
10915	12378-PeCDD	40321-76-4	0.347	JBQ	0.215	10.1	1
10915	123478-HxCDD	39227-28-6	0.476	JBQ	0.194	10.1	1
10915	123678-HxCDD	57653-85-7	0.418	JBQ	0.200	10.1	1
10915	123789-HxCDD	19408-74-3	0.190	U	0.190	10.1	1
10915	1234678-HpCDD	35822-46-9	4.31	JB	0.284	10.1	1
10915	OCDD	3268-87-9	9.89	JBQ	0.437	20.3	1
10915	2378-TCDF	51207-31-9	0.132	U	0.132	2.03	1
10915	12378-PeCDF	57117-41-6	0.276	JB	0.113	10.1	1
10915	23478-PeCDF	57117-31-4	0.812	JBQ	0.0987	10.1	1
10915	123478-HxCDF	70648-26-9	0.639	JBQ	0.212	10.1	1
10915	123678-HxCDF	57117-44-9	0.677	JB	0.167	10.1	1
10915	123789-HxCDF	72918-21-9	1.20	JB	0.154	10.1	1
10915	234678-HxCDF	60851-34-5	0.998	JBQ	0.130	10.1	1
10915	1234678-HpCDF	67562-39-4	2.52	JB	0.182	10.1	1
10915	1234789-HpCDF	55673-89-7	1.17	JBQ	0.184	10.1	1
10915	OCDF	39001-02-0	3.58	JB	0.303	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	48	25 - 164
13C12-12378-PeCDD	41	25 - 181
13C12-123478-HxCDD	38	32 - 141
13C12-123678-HxCDD	40	28 - 130
13C12-123789-HxCDD	40	28 - 130
13C12-1234678-HpCDD	36	23 - 140
13C12-OCDD	32	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	39	24 - 185
13C12-23478-PeCDF	41	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	41	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	30	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257902
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7006 SDG#: DX070-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108003	04/24/2011 13:53	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11108003	04/19/2011 05:35	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0312 U	0.0312	1.13	1
11031	12378-PeCDD	40321-76-4	0.0491 JB	0.0328	5.66	1
11031	123478-HxCDD	39227-28-6	0.0230 U	0.0230	5.66	1
11031	123678-HxCDD	57653-85-7	0.0495 JBQ	0.0245	5.66	1
11031	123789-HxCDD	19408-74-3	0.130 JBQ	0.0223	5.66	1
11031	1234678-HpCDD	35822-46-9	0.419 JBQ	0.0306	5.66	1
11031	OCDD	3268-87-9	1.16 JB	0.0327	11.3	1
11031	2378-TCDF	51207-31-9	0.0269 U	0.0269	1.13	1
11031	12378-PeCDF	57117-41-6	0.0229 JQ	0.0130	5.66	1
11031	23478-PeCDF	57117-31-4	0.0430 JBQ	0.0144	5.66	1
11031	123478-HxCDF	70648-26-9	0.0390 JBQ	0.0185	5.66	1
11031	123678-HxCDF	57117-44-9	0.0465 JB	0.0143	5.66	1
11031	123789-HxCDF	72918-21-9	0.0176 U	0.0176	5.66	1
11031	234678-HxCDF	60851-34-5	0.0541 JBQ	0.0148	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0955 JBQ	0.0178	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0771 JBQ	0.0320	5.66	1
11031	OCDF	39001-02-0	0.253 JBQ	0.0370	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257903
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7007 SDG#: DX070-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 18:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0234 U	0.0234	1.12	1
11031	12378-PeCDD	40321-76-4	0.0265 U	0.0265	5.62	1
11031	123478-HxCDD	39227-28-6	0.0234 JBQ	0.0196	5.62	1
11031	123678-HxCDD	57653-85-7	0.0407 JB	0.0208	5.62	1
11031	123789-HxCDD	19408-74-3	0.0920 JBQ	0.0188	5.62	1
11031	1234678-HpCDD	35822-46-9	0.361 JB	0.0301	5.62	1
11031	OCDD	3268-87-9	1.21 JB	0.0265	11.2	1
11031	2378-TCDF	51207-31-9	0.0220 U	0.0220	1.12	1
11031	12378-PeCDF	57117-41-6	0.0350 JQ	0.0118	5.62	1
11031	23478-PeCDF	57117-31-4	0.0528 JBQ	0.0135	5.62	1
11031	123478-HxCDF	70648-26-9	0.0199 JB	0.0145	5.62	1
11031	123678-HxCDF	57117-44-9	0.0173 JBQ	0.0114	5.62	1
11031	123789-HxCDF	72918-21-9	0.0400 JQ	0.0150	5.62	1
11031	234678-HxCDF	60851-34-5	0.0428 JBQ	0.0127	5.62	1
11031	1234678-HpCDF	67562-39-4	0.101 JB	0.0107	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0426 JBQ	0.0200	5.62	1
11031	OCDF	39001-02-0	0.186 JB	0.0314	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257904
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7008 SDG#: DX070-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 19:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0557 JQ	0.0293	1.14	1
11031	12378-PeCDD	40321-76-4	0.0637 JBQ	0.0293	5.69	1
11031	123478-HxCDD	39227-28-6	0.0316 JBQ	0.0219	5.69	1
11031	123678-HxCDD	57653-85-7	0.0528 JBQ	0.0232	5.69	1
11031	123789-HxCDD	19408-74-3	0.0689 JBQ	0.0227	5.69	1
11031	1234678-HpCDD	35822-46-9	0.374 JBQ	0.0269	5.69	1
11031	OCDD	3268-87-9	2.00 JB	0.0263	11.4	1
11031	2378-TCDF	51207-31-9	0.0251 U	0.0251	1.14	1
11031	12378-PeCDF	57117-41-6	0.0718 JQ	0.0123	5.69	1
11031	23478-PeCDF	57117-31-4	0.0892 JBQ	0.0141	5.69	1
11031	123478-HxCDF	70648-26-9	0.0525 JBQ	0.0162	5.69	1
11031	123678-HxCDF	57117-44-9	0.0626 JBQ	0.0130	5.69	1
11031	123789-HxCDF	72918-21-9	0.128 J	0.0201	5.69	1
11031	234678-HxCDF	60851-34-5	0.0555 JB	0.0141	5.69	1
11031	1234678-HpCDF	67562-39-4	0.140 JB	0.0113	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0407 JBQ	0.0219	5.69	1
11031	OCDF	39001-02-0	0.235 JBQ	0.0376	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257905
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7009 SDG#: DX070-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 20:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0296 U	0.0296	1.12	1
11031	12378-PeCDD	40321-76-4	0.0305 U	0.0305	5.60	1
11031	123478-HxCDD	39227-28-6	0.0393 JBQ	0.0244	5.60	1
11031	123678-HxCDD	57653-85-7	0.0651 JBQ	0.0255	5.60	1
11031	123789-HxCDD	19408-74-3	0.0713 JB	0.0240	5.60	1
11031	1234678-HpCDD	35822-46-9	0.369 JBQ	0.0277	5.60	1
11031	OCDD	3268-87-9	0.962 JB	0.0356	11.2	1
11031	2378-TCDF	51207-31-9	0.0267 U	0.0267	1.12	1
11031	12378-PeCDF	57117-41-6	0.0131 U	0.0131	5.60	1
11031	23478-PeCDF	57117-31-4	0.0997 JBQ	0.0145	5.60	1
11031	123478-HxCDF	70648-26-9	0.0510 JBQ	0.0186	5.60	1
11031	123678-HxCDF	57117-44-9	0.0323 JBQ	0.0139	5.60	1
11031	123789-HxCDF	72918-21-9	0.0656 JQ	0.0181	5.60	1
11031	234678-HxCDF	60851-34-5	0.0396 JBQ	0.0140	5.60	1
11031	1234678-HpCDF	67562-39-4	0.105 JBQ	0.0114	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0835 JB	0.0198	5.60	1
11031	OCDF	39001-02-0	0.122 JBQ	0.0410	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257906
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7010 SDG#: DX070-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/19/2011 21:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0251	JQ	0.0198	1.13	1
11031	12378-PeCDD	40321-76-4	0.0235	U	0.0235	5.63	1
11031	123478-HxCDD	39227-28-6	0.0182	U	0.0182	5.63	1
11031	123678-HxCDD	57653-85-7	0.0188	U	0.0188	5.63	1
11031	123789-HxCDD	19408-74-3	0.0590	JBQ	0.0186	5.63	1
11031	1234678-HpCDD	35822-46-9	0.830	JB	0.0239	5.63	1
11031	OCDD	3268-87-9	5.19	JB	0.0219	11.3	1
11031	2378-TCDF	51207-31-9	0.0199	U	0.0199	1.13	1
11031	12378-PeCDF	57117-41-6	0.0137	JQ	0.00995	5.63	1
11031	23478-PeCDF	57117-31-4	0.0590	JBQ	0.0114	5.63	1
11031	123478-HxCDF	70648-26-9	0.0429	JBQ	0.0126	5.63	1
11031	123678-HxCDF	57117-44-9	0.0195	JBQ	0.00973	5.63	1
11031	123789-HxCDF	72918-21-9	0.0420	J	0.0157	5.63	1
11031	234678-HxCDF	60851-34-5	0.0459	JBQ	0.0110	5.63	1
11031	1234678-HpCDF	67562-39-4	0.185	JBQ	0.00686	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0538	JBQ	0.0143	5.63	1
11031	OCDF	39001-02-0	0.311	JBQ	0.0340	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257907
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7011 SDG#: DX070-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/20/2011 02:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0203 U	0.0203	1.13	1
11031	12378-PeCDD	40321-76-4	0.0228 U	0.0228	5.67	1
11031	123478-HxCDD	39227-28-6	0.0252 JBQ	0.0164	5.67	1
11031	123678-HxCDD	57653-85-7	0.0171 U	0.0171	5.67	1
11031	123789-HxCDD	19408-74-3	0.0411 JB	0.0166	5.67	1
11031	1234678-HpCDD	35822-46-9	0.300 JB	0.0196	5.67	1
11031	OCDD	3268-87-9	0.724 JB	0.0168	11.3	1
11031	2378-TCDF	51207-31-9	0.0182 JQ	0.0175	1.13	1
11031	12378-PeCDF	57117-41-6	0.0188 JQ	0.00916	5.67	1
11031	23478-PeCDF	57117-31-4	0.0540 JBQ	0.0105	5.67	1
11031	123478-HxCDF	70648-26-9	0.0334 JBQ	0.0136	5.67	1
11031	123678-HxCDF	57117-44-9	0.0156 JBQ	0.00916	5.67	1
11031	123789-HxCDF	72918-21-9	0.0654 JQ	0.0125	5.67	1
11031	234678-HxCDF	60851-34-5	0.0359 JBQ	0.00871	5.67	1
11031	1234678-HpCDF	67562-39-4	0.0864 JB	0.00641	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0623 JBQ	0.0123	5.67	1
11031	OCDF	39001-02-0	0.196 JBQ	0.0307	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-205-SA5A-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
LLI Group # 1242145
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/13/2011 13:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257908
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Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7012 SDG#: DX070-12*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11105002	04/20/2011 03:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11105002	04/15/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401A	Sample number(s): 6257895-6257901,6257903-6257905,6257907-6257908								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6257906								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11105002	Sample number(s): 6257895,6257900-6257901,6257903-6257908								
2378-TCDD	0.0189 U	0.0189	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0471 J	0.0203	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0436 J	0.0170	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0275 J	0.0175	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0327 J	0.0164	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.298 J	0.0179	5.00	ng/kg	105		70-140		
OCDD	0.622 J	0.0207	10.0	ng/kg	102		78-144		
2378-TCDF	0.0192 U	0.0192	1.00	ng/kg	115		75-158		
2378-TCDF-Conf	0.0240 U	0.0240	1.00	ng/kg					
12378-PeCDF	0.00910 U	0.00910	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0602 J	0.00990	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0670 J	0.0151	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0529 J	0.0117	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0155 U	0.0155	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0595 J	0.0120	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.145 J	0.00690	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0559 J	0.0131	5.00	ng/kg	105		78-138		
OCDF	0.267 J	0.0237	10.0	ng/kg	101		63-170		
Batch number: 11108003	Sample number(s): 6257902								
2378-TCDD	0.264 J	0.145	2.00	pg/l	89		67-158		
12378-PeCDD	0.899 J	0.168	10.0	pg/l	94		70-142		
123478-HxCDD	1.28 J	0.177	10.0	pg/l	99		70-164		
123678-HxCDD	1.08 J	0.182	10.0	pg/l	98		76-134		
123789-HxCDD	1.65 J	0.172	10.0	pg/l	97		64-162		
1234678-HpCDD	7.94 J	0.329	10.0	pg/l	98		70-140		
OCDD	47.4	0.357	20.0	pg/l	102		78-144		
2378-TCDF	0.147 J	0.0934	2.00	pg/l	101		75-158		
12378-PeCDF	0.844 J	0.0873	10.0	pg/l	97		80-134		
23478-PeCDF	1.28 J	0.0793	10.0	pg/l	99		68-160		
123478-HxCDF	1.50 J	0.177	10.0	pg/l	101		72-134		
123678-HxCDF	1.21 J	0.159	10.0	pg/l	101		84-130		
123789-HxCDF	1.98 J	0.172	10.0	pg/l	98		78-130		
234678-HxCDF	1.71 J	0.142	10.0	pg/l	102		70-156		
1234678-HpCDF	4.55 J	0.153	10.0	pg/l	102		82-122		
1234789-HpCDF	2.38 J	0.191	10.0	pg/l	100		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	6.44	J	0.332	20.0	pg/l	103		63-170		
Batch number: 11118003	Sample number(s): 6257896-6257899									
2378-TCDD	0.0138	U	0.0138	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0182	J	0.0131	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0208	J	0.0148	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0353	J	0.0154	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0254	J	0.0139	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.221	J	0.0206	5.00	ng/kg	102		70-140		
OCDD	0.477	J	0.0203	10.0	ng/kg	101		78-144		
2378-TCDF	0.0115	U	0.0115	1.00	ng/kg	105		75-158		
2378-TCDF-Conf	0.0283	U	0.0283	1.00	ng/kg					
12378-PeCDF	0.0263	J	0.00660	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0537	J	0.00690	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0521	J	0.0131	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0335	J	0.0101	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0904	J	0.0137	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0685	J	0.0104	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.104	J	0.00860	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0661	J	0.0182	5.00	ng/kg	104		78-138		
OCDF	0.210	J	0.0307	10.0	ng/kg	106		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401A	Sample number(s): 6257895-6257901,6257903-6257905,6257907-6257908					BKG: P257874			
Moisture Content by 160.3						15.2	15.0	2	20
Batch number: 11126162401B	Sample number(s): 6257906		BKG: P257885						
Moisture Content by 160.3						11.5	11.9	4	20
Batch number: 11118003	Sample number(s): 6257896-6257899 UNSPK: 6257896								
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	102	101	70-142	1	25				
123478-HxCDD	105	102	70-164	1	25				
123678-HxCDD	101	100	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	85	74	70-140	5	25				
OCDD	43*	-3*	78-144	11	25				
2378-TCDF	102	102	75-158	2	25				
12378-PeCDF	101	99	80-134	0	25				
23478-PeCDF	100	99	68-160	3	25				
123478-HxCDF	103	101	72-134	0	25				
123678-HxCDF	102	98	84-130	1	25				
123789-HxCDF	100	98	78-130	1	25				
234678-HxCDF	101	102	70-156	4	25				
1234678-HpCDF	92	88	82-122	2	25				
1234789-HpCDF	101	99	78-138	1	25				
OCDF	89	83	63-170	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11105002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257895	75	66	47	62	63	65
6257900	78	69	37	48	70	74
6257901	69	64	53	64	62	64
6257903	67	67	55	68	65	61
6257904	64	57	52	65	56	55
6257905	60	58	58	70	61	50
6257906	60	53	42	57	54	48
6257907	71	61	58	74	64	54
6257908	68	60	42	62	62	50
Blank	79	66	56	71	69	59
OPR	75	64	60	74	64	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257895	72	60	60	89	72	69
6257900	56	73	66	86	76	67
6257901	76	61	58	83	69	68
6257903	94	60	54	85	74	74
6257904	75	50	46	84	65	66
6257905	81	48	44	77	63	72
6257906	68	44	40	80	59	61
6257907	84	48	44	85	70	73
6257908	72	47	40	86	66	72
Blank	88	56	52	103	78	78
OPR	88	54	51	90	71	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257895	71	72	82	78	70	78
6257900	71	81	79	81	76	81
6257901	68	73	73	72	68	76
6257903	74	80	81	75	65	81
6257904	67	72	66	62	59	70
6257905	69	70	68	62	60	71
6257906	64	65	63	57	55	65
6257907	73	74	71	65	67	75
6257908	72	73	71	64	61	73
Blank	81	86	82	79	70	80
OPR	75	77	76	72	66	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

	13C12-2378-TCDF-Conf
6257895	55
6257900	
6257901	
6257903	
6257904	
6257905	
6257906	
6257907	
6257908	
Blank	66
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11108003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257902	48	41	26	32	41	39
Blank	63	57	50	55	59	56
OPR	76	73	67	72	77	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257902	30	35	31	77	41	38
Blank	50	49	43	92	57	56
OPR	68	69	62	84	75	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257902	40	40	36	32	49	39
Blank	56	56	49	43	63	56
OPR	75	75	69	61	74	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6257896	81	78	59	66	83	78
6257897	77	77	60	65	76	72
6257898	73	70	61	70	69	71
6257899	77	74	60	63	77	75
Blank	71	70	61	73	72	62
MS	77	77	60	65	76	72
MSD	73	70	61	70	69	71
OPR	67	69	64	69	71	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242145
Reported: 05/13/11 at 01:16 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6257896	79	74	67	87	82	84
6257897	76	70	64	83	80	78
6257898	82	65	60	82	75	76
6257899	71	72	66	82	77	78
Blank	100	58	50	86	77	80
MS	76	70	64	83	80	78
MSD	82	65	60	82	75	76
OPR	76	72	69	83	74	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6257896	84	87	84	82	80	88
6257897	79	78	76	73	74	85
6257898	73	75	76	75	69	76
6257899	75	81	77	78	73	81
Blank	78	83	85	85	64	79
MS	79	78	76	73	74	85
MSD	73	75	76	75	69	76
OPR	75	77	79	79	62	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6257896	69
6257897	
6257898	
6257899	71
Blank	59
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1242145 Sample#6257895-908

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stacy Burt

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											MS/MSD sample
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2 SS sleeves			X	X															MS/MSD sample
SL-027-SA8N-SS-0.0-0.5	04.13.11	1010	SOIL	NONE	1-16 oz jar										X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X									
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	1 SS sleeve			X	X															
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/13/2011 / 1700	4/14/11 905	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8700 5932 3124; 8700 5932 3146 8700 5932 3157	

acct# 13013 Cp# 1242145 Sample# 6257895-908

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stef J Butler

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7470/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	7-1 liter ambers			X	X	X														
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	1-500 mL poly		X				X	X	X											
EB02-SA8N-SS-041311	04.13.11	1215	WATER	HNO3	1-500 mL poly	X																		
EB03-SA8N-SS-041311	04.13.11	1220	WATER	NONE	3-40 ml vials																	X		

Relinquished by: (Signature) — Date/Time: 04/13/2011 / 1700 — Received for Laboratory by: (Signature) 4/14/11 905

Received by: (Signature) — Date/Time — Air Bill No.(s): 8700 5932 3124; 8700 5932 3146 8700 5932 3157

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Gp# 1242145 Sample# 6257895-908

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-060-SA5A-SB-4.5	04.13.11	1600	SOIL	NONE	4-Encores										X	X											
SL-060-SA5A-SB-4.0-5.0	04.13.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-060-SA5A-SB-8.0-9.0	04.13.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-061-SA5A-SB-4.5	04.13.11	1424	SOIL	NONE	4-Encores										X	X											
SL-061-SA5A-SB-4.0-5.0	04.13.11	1428	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-204-SA5A-SB-4.5	04.13.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-204-SA5A-SB-4.0-5.0	04.13.11	0919	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-205-SA5A-SB-4.5	04.13.11	1110	SOIL	NONE	4-Encores										X	X											
SL-205-SA5A-SB-4.0-5.0	04.13.11	1114	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5A-SB-8.0-9.0	04.13.11	1122	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041311	04.13.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 04/13/2011 / 1700 — Received for Laboratory by: (*Signature*) 4/14/11 905

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8700 5932 3124; 8700 5932 3146 8700 5932 3157

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242326
SDG: DE127
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP03-SA8N-QC-041411 Soil	6259045
SL-040-SA8N-SS-0.0-0.5 Soil	6259046
SL-078-SA8N-SS-0.0-0.5 Soil	6259047
SL-079-SA8N-SS-0.0-0.5 Soil	6259048
SL-082-SA8N-SS-0.0-0.5 Soil	6259049
SL-089-SA8N-SS-0.0-0.5 Soil	6259050
SL-090-SA8N-SS-0.0-0.5 Soil	6259051
SL-091-SA8N-SS-0.0-0.5 Soil	6259052
SL-130-SA8N-SS-0.0-0.5 Soil	6259053
SL-133-SA8N-SS-0.0-0.5 Soil	6259054
SL-133-SA8N-SS-0.0-0.5MS Soil	6259055
SL-133-SA8N-SS-0.0-0.5MSD Soil	6259056
SL-133-SA8N-SS-0.0-0.5DUP Soil	6259057
SL-134-SA8N-SS-0.0-0.5 Soil	6259058
EB04-SA8N-SS-041411 Water	6259059

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP03-SA8N-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA8N-QC-041411

LLI Sample # SW 6259045
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:25

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE127-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	39.2		19.1	38.3		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	10		2.3	6.9		5
10199	EFH (C21-C30)	n.a.	50		2.3	6.9		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA8N-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA8N-QC-041411

LLI Sample # SW 6259045
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:25

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE127-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	140		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.9		0.92	1.7		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA8N-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA8N-QC-041411

LLI Sample # SW 6259045
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:25

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE127-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 14:33	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/04/2011 19:53	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 21:36	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 11:20	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 18:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 17:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 18:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 08:34	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	8.9		5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	3.6	U	3.6	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	8.9		5
10138	Chrysene	218-01-9	1.9	J	1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	8.9		5
10138	Fluoranthene	206-44-0	3.6	U	3.6	8.9		5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9		5
10138	Naphthalene	91-20-3	4.7	J	3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	8.9		5
10138	Pyrene	129-00-0	3.6	U	3.6	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.3	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.65	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.6	U	8.6	26		20
10199	EFH (C15-C20)	n.a.	14	J	8.6	26		20
10199	EFH (C21-C30)	n.a.	240		8.6	26		20
10199	EFH (C30 - C40)	n.a.	750		8.6	26		20
10199	EFH (C8-C11)	n.a.	8.6	U	8.6	26		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		5.36	21.3		1
07914	Boron	7440-42-8	2.98	J	0.949	5.33		1
01650	Calcium	7440-70-2	3,360		6.53	21.3		1
01654	Iron	7439-89-6	19,700		5.02	21.3		1
01656	Lithium	7439-93-2	19.7		0.23	2.1		1
01657	Magnesium	7439-95-4	4,230		2.71	10.7		1
06958	Manganese	7439-96-5	287		0.0831	0.533		1
10145	Phosphorus	7723-14-0	412		0.597	10.7		1
01662	Potassium	7440-09-7	3,290		19.2	53.3		1
01667	Sodium	7440-23-5	90.6	J	39.8	107		1
07968	Strontium	7440-24-6	27.5		0.0661	0.533		1
06969	Tin	7440-31-5	2.61	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,010		0.405	1.07		1
10146	Zirconium	7440-67-7	2.48	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0615	U	0.0615	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.07		0.0820	0.410		2
06126	Barium	7440-39-3	119		0.111	0.410		2
06127	Beryllium	7440-41-7	0.556		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.321		0.0410	0.103		2
06131	Chromium	7440-47-3	19.2		0.123	0.410		2
06132	Cobalt	7440-48-4	6.80		0.0205	0.103		2
06133	Copper	7440-50-8	12.0		0.0677	0.410		2
06135	Lead	7439-92-1	9.16		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.458		0.0513	0.103		2
06139	Nickel	7440-02-0	13.8		0.103	0.410		2
06141	Selenium	7782-49-2	0.124	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.0338	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.223		0.0308	0.103		2
06148	Vanadium	7440-62-2	35.5		0.0226	0.103		2
06149	Zinc	7440-66-6	61.5		0.574	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.86	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	325		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.
The elevated temperature only applies to the sleeve container for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 03:45	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 12:18	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 18:40	Lindsey K Lafferty	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 13:00	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/27/2011 15:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 08:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/28/2011 23:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 17:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259046
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL040 SDG#: DE127-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	U	19.3	38.5		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.67	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.95	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	2.9		0.38	2.0		1
10225	PCB-1260	11096-82-5	1.0	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.70	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.4		0.46	1.4		1

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Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,000		5.70	22.7		1
07914	Boron	7440-42-8	10.9		1.01	5.67		1
01650	Calcium	7440-70-2	55,900		6.95	22.7		1
01654	Iron	7439-89-6	28,800		5.34	22.7		1
01656	Lithium	7439-93-2	29.5		0.25	2.3		1
01657	Magnesium	7439-95-4	8,400		2.88	11.3		1
06958	Manganese	7439-96-5	386		0.0884	0.567		1
10145	Phosphorus	7723-14-0	642		0.635	11.3		1
01662	Potassium	7440-09-7	6,380		20.4	56.7		1
01667	Sodium	7440-23-5	216		42.3	113		1
07968	Strontium	7440-24-6	110		0.0703	0.567		1
06969	Tin	7440-31-5	2.49	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,290		0.431	1.13		1
10146	Zirconium	7440-67-7	3.26	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0753	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.51		0.0925	0.462		2
06126	Barium	7440-39-3	99.8		0.125	0.462		2
06127	Beryllium	7440-41-7	0.686		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.238		0.0462	0.116		2

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Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	30.5	0.139	0.462		2
06132	Cobalt	7440-48-4	9.51	0.0231	0.116		2
06133	Copper	7440-50-8	15.5	0.0763	0.462		2
06135	Lead	7439-92-1	9.26	0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.472	0.0578	0.116		2
06139	Nickel	7440-02-0	17.7	0.116	0.462		2
06141	Selenium	7782-49-2	0.425 J	0.0462	0.462		2
06142	Silver	7440-22-4	0.0243 J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.328	0.0347	0.116		2
06148	Vanadium	7440-62-2	56.4	0.0254	0.116		2
06149	Zinc	7440-66-6	64.9	0.647	3.47		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	51.6	4.6	8.7		5
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.77	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.
The elevated temperature only applies to the sleeve and one soil jar for this sample.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 14:50	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 04:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 12:51	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/04/2011 22:00	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 21:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 13:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 06:45	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 18:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 18:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 05:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259047
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL078 SDG#: DE127-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 09:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/29/2011 04:29	Ashley M Adams	5
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/28/2011 23:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 18:03	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	199	U	199	398		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.49	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.97	U	0.97	2.9		2
10199	EFH (C15-C20)	n.a.	2.2	J	0.97	2.9		2
10199	EFH (C21-C30)	n.a.	24		0.97	2.9		2
10199	EFH (C30 - C40)	n.a.	52		0.97	2.9		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.97	U	0.97	2.9		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.91	23.5		1
07914	Boron	7440-42-8	4.83	J	1.04	5.87		1
01650	Calcium	7440-70-2	4,270		7.20	23.5		1
01654	Iron	7439-89-6	20,000		5.53	23.5		1
01656	Lithium	7439-93-2	18.0		0.26	2.3		1
01657	Magnesium	7439-95-4	4,230		2.98	11.7		1
06958	Manganese	7439-96-5	423		0.0916	0.587		1
10145	Phosphorus	7723-14-0	438		0.657	11.7		1
01662	Potassium	7440-09-7	4,360		21.1	58.7		1
01667	Sodium	7440-23-5	75.2	J	43.8	117		1
07968	Strontium	7440-24-6	28.9		0.0728	0.587		1
06969	Tin	7440-31-5	2.59	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,100		0.446	1.17		1
10146	Zirconium	7440-67-7	2.71	J	0.986	5.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.52		0.0930	0.465		2
06126	Barium	7440-39-3	114		0.126	0.465		2
06127	Beryllium	7440-41-7	0.611		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.225		0.0465	0.116		2
06131	Chromium	7440-47-3	19.5		0.140	0.465		2
06132	Cobalt	7440-48-4	7.20		0.0233	0.116		2
06133	Copper	7440-50-8	12.1		0.0767	0.465		2
06135	Lead	7439-92-1	17.2		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.596		0.0581	0.116		2
06139	Nickel	7440-02-0	13.6		0.116	0.465		2
06141	Selenium	7782-49-2	0.182	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0384	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.278		0.0349	0.116		2
06148	Vanadium	7440-62-2	35.8		0.0256	0.116		2
06149	Zinc	7440-66-6	58.8		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0202	J	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.4		0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.30	J	0.22	0.62		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	398		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/29/2011 14:35	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 09:14	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 13:23	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/04/2011 22:43	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 21:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 14:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/27/2011 12:33	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 18:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 18:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 06:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259048
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE127-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 09:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 09:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 00:21	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 18:16	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.2	J	18.3	36.6		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.46	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	4.1		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	5.0		0.74	1.8		1
10138	Fluorene	86-73-7	0.83	J	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.88	J	0.74	1.8		1
10138	Naphthalene	91-20-3	1.8	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.7	20		1
10138	Phenanthrene	85-01-8	2.2		0.74	1.8		1
10138	Pyrene	129-00-0	3.0		0.74	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3		2
10225	Aroclor 5460	11126-42-4	44		2.2	7.3		2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.8		2
10225	PCB-1221	11104-28-2	0.73	U	0.73	3.8		2
10225	PCB-1232	11141-16-5	0.73	U	0.73	3.8		2
10225	PCB-1242	53469-21-9	0.73	U	0.73	3.8		2
10225	PCB-1248	12672-29-6	0.73	U	0.73	3.8		2
10225	PCB-1254	11097-69-1	27		0.73	3.8		2
10225	PCB-1260	11096-82-5	7.7		0.87	3.8		2
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.8		2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.8		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	8.5		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	23		0.44	1.3		1

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Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.55	22.1		1
07914	Boron	7440-42-8	2.22	J	0.981	5.51		1
01650	Calcium	7440-70-2	3,220		6.76	22.1		1
01654	Iron	7439-89-6	26,800		5.19	22.1		1
01656	Lithium	7439-93-2	19.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,990		2.80	11.0		1
06958	Manganese	7439-96-5	368		0.0860	0.551		1
10145	Phosphorus	7723-14-0	488		0.617	11.0		1
01662	Potassium	7440-09-7	3,680		19.8	55.1		1
01667	Sodium	7440-23-5	80.0	J	41.1	110		1
07968	Strontium	7440-24-6	19.6		0.0684	0.551		1
06969	Tin	7440-31-5	2.76	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,020		0.419	1.10		1
10146	Zirconium	7440-67-7	0.926	U	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0985	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.77		0.0882	0.441		2
06126	Barium	7440-39-3	116		0.119	0.441		2
06127	Beryllium	7440-41-7	0.766		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.289		0.0441	0.110		2
06131	Chromium	7440-47-3	22.9		0.132	0.441		2
06132	Cobalt	7440-48-4	7.11		0.0221	0.110		2
06133	Copper	7440-50-8	12.8		0.0728	0.441		2
06135	Lead	7439-92-1	26.9		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.736		0.0551	0.110		2
06139	Nickel	7440-02-0	14.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.236	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.172		0.0132	0.110		2
06145	Thallium	7440-28-0	0.374		0.0331	0.110		2
06148	Vanadium	7440-62-2	43.8		0.0243	0.110		2
06149	Zinc	7440-66-6	93.5		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.167		0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.5		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	412		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE127-05

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 15:23	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 09:38	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 13:56	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/04/2011 23:25	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 22:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/26/2011 15:12	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 07:10	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 18:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 18:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 06:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259049
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL082 SDG#: DE127-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 09:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 09:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 00:43	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 18:28	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	91.5		19.5	39.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.41	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1

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Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	2.9		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	8.2		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	23		0.47	1.4		1

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Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		5.96	23.7		1
07914	Boron	7440-42-8	4.39	J	1.05	5.92		1
01650	Calcium	7440-70-2	4,200		7.26	23.7		1
01654	Iron	7439-89-6	23,900		5.58	23.7		1
01656	Lithium	7439-93-2	20.8		0.26	2.4		1
01657	Magnesium	7439-95-4	5,150		3.01	11.8		1
06958	Manganese	7439-96-5	434		0.0924	0.592		1
10145	Phosphorus	7723-14-0	283		0.664	11.8		1
01662	Potassium	7440-09-7	4,170		21.3	59.2		1
01667	Sodium	7440-23-5	98.3	J	44.2	118		1
07968	Strontium	7440-24-6	26.3		0.0735	0.592		1
06969	Tin	7440-31-5	2.65	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,240		0.450	1.18		1
10146	Zirconium	7440-67-7	2.36	J	0.995	5.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0697	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.61		0.0929	0.465		2
06126	Barium	7440-39-3	126		0.125	0.465		2
06127	Beryllium	7440-41-7	0.749		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.302		0.0465	0.116		2

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Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	26.0	0.139	0.465		2
06132	Cobalt	7440-48-4	9.44	0.0232	0.116		2
06133	Copper	7440-50-8	14.7	0.0767	0.465		2
06135	Lead	7439-92-1	11.5	0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.573	0.0581	0.116		2
06139	Nickel	7440-02-0	16.6	0.116	0.465		2
06141	Selenium	7782-49-2	0.217 J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0491 J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.313	0.0348	0.116		2
06148	Vanadium	7440-62-2	48.4	0.0256	0.116		2
06149	Zinc	7440-66-6	63.6	0.650	3.48		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3	0.95	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.59		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	419	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 15:40	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 10:02	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 14:28	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 00:07	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 22:14	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 14:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 07:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 19:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 19:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 07:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259050
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE127-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/26/2011 16:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 10:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 10:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 01:05	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 18:41	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259051
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE127-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259051
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE127-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	1.7	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.1		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.3	J	0.79	2.0		1
10138	Pyrene	129-00-0	1.4	J	0.79	2.0		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.89	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.65	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		5.78	23.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259051
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE127-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.73	J	1.02	5.74		1
01650	Calcium	7440-70-2	2,470		7.04	23.0		1
01654	Iron	7439-89-6	19,200		5.41	23.0		1
01656	Lithium	7439-93-2	20.4		0.25	2.3		1
01657	Magnesium	7439-95-4	3,980		2.92	11.5		1
06958	Manganese	7439-96-5	333		0.0896	0.574		1
10145	Phosphorus	7723-14-0	397		0.643	11.5		1
01662	Potassium	7440-09-7	3,500		20.7	57.4		1
01667	Sodium	7440-23-5	71.7	J	42.9	115		1
07968	Strontium	7440-24-6	21.5		0.0712	0.574		1
06969	Tin	7440-31-5	2.25	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,090		0.437	1.15		1
10146	Zirconium	7440-67-7	0.965	U	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0875	J	0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.60		0.0947	0.473		2
06126	Barium	7440-39-3	98.4		0.128	0.473		2
06127	Beryllium	7440-41-7	0.589		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.189		0.0473	0.118		2
06131	Chromium	7440-47-3	17.6		0.142	0.473		2
06132	Cobalt	7440-48-4	6.31		0.0237	0.118		2
06133	Copper	7440-50-8	9.77		0.0781	0.473		2
06135	Lead	7439-92-1	9.93		0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.680		0.0592	0.118		2
06139	Nickel	7440-02-0	11.4		0.118	0.473		2
06141	Selenium	7782-49-2	0.153	J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0293	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.265		0.0355	0.118		2
06148	Vanadium	7440-62-2	34.2		0.0260	0.118		2
06149	Zinc	7440-66-6	56.9		0.663	3.55		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0185	J	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	U	0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259051
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE127-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	471	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.44	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011	10:26	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011	15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011	09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011	03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011	15:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011	14:00	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011	19:16	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259051
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE127-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:16	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:16	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/26/2011 16:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 10:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 01:27	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 18:53	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259052
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL091 SDG#: DE127-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259052
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL091 SDG#: DE127-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8		5
10138	Anthracene	120-12-7	2.0	U	2.0	9.8		5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.8		5
10138	Benzo(a)pyrene	50-32-8	3.9	U	3.9	9.8		5
10138	Benzo(b)fluoranthene	205-99-2	3.9	U	3.9	9.8		5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	U	3.9	9.8		5
10138	Benzo(k)fluoranthene	207-08-9	3.9	U	3.9	9.8		5
10138	Chrysene	218-01-9	3.3	J	2.0	9.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.8		5
10138	Fluoranthene	206-44-0	4.0	J	3.9	9.8		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.8		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8		5
10138	2-Methylnaphthalene	91-57-6	4.0	J	3.9	9.8		5
10138	Naphthalene	91-20-3	6.1	J	3.9	9.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.8		5
10138	Pyrene	129-00-0	3.9	U	3.9	9.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	5.7		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	5.7		0.39	2.0		1
10225	PCB-1260	11096-82-5	1.8	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		5.81	23.1		1
07914	Boron	7440-42-8	2.16	J	1.03	5.78		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259052
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL091 SDG#: DE127-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,620		7.09	23.1		1
01654	Iron	7439-89-6	19,000		5.44	23.1		1
01656	Lithium	7439-93-2	22.7		0.25	2.3		1
01657	Magnesium	7439-95-4	4,470		2.94	11.6		1
06958	Manganese	7439-96-5	293		0.0902	0.578		1
10145	Phosphorus	7723-14-0	476		0.647	11.6		1
01662	Potassium	7440-09-7	3,230		20.8	57.8		1
01667	Sodium	7440-23-5	73.5	J	43.1	116		1
07968	Strontium	7440-24-6	17.0		0.0717	0.578		1
06969	Tin	7440-31-5	2.30	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,110		0.439	1.16		1
10146	Zirconium	7440-67-7	0.971	U	0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0714	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.51		0.0952	0.476		2
06126	Barium	7440-39-3	84.0		0.129	0.476		2
06127	Beryllium	7440-41-7	0.551		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.134		0.0476	0.119		2
06131	Chromium	7440-47-3	17.5		0.143	0.476		2
06132	Cobalt	7440-48-4	5.88		0.0238	0.119		2
06133	Copper	7440-50-8	9.14		0.0786	0.476		2
06135	Lead	7439-92-1	14.3		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.670		0.0595	0.119		2
06139	Nickel	7440-02-0	11.4		0.119	0.476		2
06141	Selenium	7782-49-2	0.155	J	0.0476	0.476		2
06142	Silver	7440-22-4	0.0488	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.345		0.0357	0.119		2
06148	Vanadium	7440-62-2	34.7		0.0262	0.119		2
06149	Zinc	7440-66-6	61.5		0.667	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0235	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259052
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL091 SDG#: DE127-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	485	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011	10:51	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011	15:32	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011	09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011	03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011	15:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011	14:00	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011	19:20	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259052
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL091 SDG#: DE127-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:20	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 10:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 10:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 01:49	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 19:12	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259053
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE127-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259053
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE127-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	2.5	J	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	4.2	J	3.9	9.7		5
10138	Benzo(b)fluoranthene	205-99-2	15		3.9	9.7		5
10138	Benzo(g,h,i)perylene	191-24-2	7.4	J	3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	4.3	J	3.9	9.7		5
10138	Chrysene	218-01-9	15		1.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7		5
10138	Fluoranthene	206-44-0	29		3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	5.0	J	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Di-n-octylphthalate	117-84-0	48	J	35	100		5
10138	Phenanthrene	85-01-8	13		3.9	9.7		5
10138	Pyrene	129-00-0	15		3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	8.2		0.38	2.0		1
10225	PCB-1260	11096-82-5	3.1		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.84	23.2		1
07914	Boron	7440-42-8	7.19		1.03	5.80		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259053
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE127-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	7,390		7.12	23.2		1
01654	Iron	7439-89-6	31,300		5.47	23.2		1
01656	Lithium	7439-93-2	27.2		0.26	2.3		1
01657	Magnesium	7439-95-4	7,400		2.95	11.6		1
06958	Manganese	7439-96-5	444		0.0905	0.580		1
10145	Phosphorus	7723-14-0	571		0.650	11.6		1
01662	Potassium	7440-09-7	6,490		20.9	58.0		1
01667	Sodium	7440-23-5	108	J	43.3	116		1
07968	Strontium	7440-24-6	35.1		0.0720	0.580		1
06969	Tin	7440-31-5	2.83	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,440		0.441	1.16		1
10146	Zirconium	7440-67-7	4.15	J	0.975	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0973	J	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0911	0.455		2
06126	Barium	7440-39-3	130		0.123	0.455		2
06127	Beryllium	7440-41-7	0.771		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.393		0.0455	0.114		2
06131	Chromium	7440-47-3	31.8		0.137	0.455		2
06132	Cobalt	7440-48-4	10.2		0.0228	0.114		2
06133	Copper	7440-50-8	17.5		0.0751	0.455		2
06135	Lead	7439-92-1	14.0		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.837		0.0569	0.114		2
06139	Nickel	7440-02-0	20.1		0.114	0.455		2
06141	Selenium	7782-49-2	0.273	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0500	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.327		0.0341	0.114		2
06148	Vanadium	7440-62-2	58.9		0.0250	0.114		2
06149	Zinc	7440-66-6	84.5		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.139		0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259053
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE127-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	465	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011	11:15	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011	16:04	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011	09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011	03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011	15:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011	14:00	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011	19:24	John P Hook	1

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Analysis Report

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259053
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL130 SDG#: DE127-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 10:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 02:11	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 19:18	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	300	J	192	384		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	20	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	21	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	25	J	19	190		1
04688	Di-n-butylphthalate	84-74-2	22	J	19	190		1
04688	Carbazole	86-74-8	21	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	26	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	67	J	19	390		1
04688	Fluoranthene	206-44-0	41	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	21	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	37	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	1.2	J	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.66	J	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.77	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.95	J	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	2.4		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	3.3		0.77	1.9		1
10138	Naphthalene	91-20-3	4.2		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	5,100		120	390		100
10225	PCB-1016	12674-11-2	39	U	39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	1,700		39	200		100
10225	PCB-1254	11097-69-1	1,500		39	200		100
10225	PCB-1260	11096-82-5	46	U	46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100
10225	PCB-1268	11100-14-4	39	U	39	200		100
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	9.8		2.3	7.0		5
10199	EFH (C21-C30)	n.a.	44		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	140		2.3	7.0		5

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Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		5.83	23.2		1
07914	Boron	7440-42-8	6.92		1.03	5.80		1
01650	Calcium	7440-70-2	7,990		7.11	23.2		1
01654	Iron	7439-89-6	27,400		5.46	23.2		1
01656	Lithium	7439-93-2	22.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,190		2.94	11.6		1
06958	Manganese	7439-96-5	418		0.0904	0.580		1
10145	Phosphorus	7723-14-0	561		0.649	11.6		1
01662	Potassium	7440-09-7	5,220		20.9	58.0		1
01667	Sodium	7440-23-5	108	J	43.2	116		1
07968	Strontium	7440-24-6	27.6		0.0719	0.580		1
06969	Tin	7440-31-5	2.89	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,280		0.441	1.16		1
10146	Zirconium	7440-67-7	4.34	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.37		0.0937	0.468		2
06126	Barium	7440-39-3	132		0.126	0.468		2
06127	Beryllium	7440-41-7	0.697		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.559		0.0468	0.117		2

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Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	57.1		0.141	0.468		2
06132	Cobalt	7440-48-4	9.52		0.0234	0.117		2
06133	Copper	7440-50-8	20.3		0.0773	0.468		2
06135	Lead	7439-92-1	166		0.0304	0.585		5
06138	Molybdenum	7439-98-7	0.901		0.0585	0.117		2
06139	Nickel	7440-02-0	44.8		0.117	0.468		2
06141	Selenium	7782-49-2	0.169	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.289		0.0141	0.117		2
06145	Thallium	7440-28-0	0.253		0.0351	0.117		2
06148	Vanadium	7440-62-2	48.4		0.0258	0.117		2
06149	Zinc	7440-66-6	211		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.313		0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.0		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 15:57	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 02:32	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 10:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 00:50	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 22:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/28/2011 15:16	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 11:45	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 19:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 19:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 20:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259054
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:31	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/26/2011 16:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 07:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 07:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/28/2011 22:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 19:49	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	193	U	193	386		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	2,000		19	190		1
04688	Aniline	62-53-3	1,200		190	580		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	580		1
04688	Benzyl alcohol	100-51-6	1,700		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	2,100		19	190		1
04688	Carbazole	86-74-8	2,000		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		39	190		1
04688	4-Chloroaniline	106-47-8	1,100		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190		1
04688	Diethylphthalate	84-66-2	1,900		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900		39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		39	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,600		390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		19	390		1
04688	Fluoranthene	206-44-0	2,100		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	1,900		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		77	190		1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,400	190	580		1
04688	Hexachloroethane	67-72-1	1,700	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,700	39	190		1
04688	4-Methylphenol	106-44-5	1,900	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,700	77	190		1
04688	Nitrobenzene	98-95-3	2,000	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,900	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	1,500	190	580		1
04688	Phenanthrene	85-01-8	2,000	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	2,000	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.78	2.0		1
10138	Acenaphthylene	208-96-8	35	0.39	2.0		1
10138	Anthracene	120-12-7	36	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	38	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	37	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	39	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	37	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	41	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	39	7.0	21		1
10138	Chrysene	218-01-9	37	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	41	0.78	2.0		1
10138	Diethylphthalate	84-66-2	32	7.0	21		1
10138	Dimethylphthalate	131-11-3	38	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	7.0	21		1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	38		0.78	2.0		1
10138	Fluorene	86-73-7	36		0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	41		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	35		0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	31		0.78	2.0		1
10138	Naphthalene	91-20-3	34		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	37		0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	41		7.0	21		1
10138	Phenanthrene	85-01-8	36		0.78	2.0		1
10138	Pyrene	129-00-0	35		0.78	2.0		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,100		69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,100		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,000		46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,100		46	140	10000000	1
10132	HMX	2691-41-0	1,900		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,000		46	140	10000000	1
10132	Nitroglycerin	55-63-0	45,000		920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	2,000		92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,100		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,000		92	140	10000000	1
10132	PETN	78-11-5	55,000		920	2,800	10000000	1
10132	RDX	121-82-4	1,700		57	140	10000000	1
10132	Tetryl	479-45-8	1,300		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	1,900		46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,000		46	140	10000000	1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,500		700	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	5,100		120	390		100
10225	PCB-1016	12674-11-2	380		39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	920		39	200		100
10225	PCB-1254	11097-69-1	1,900		39	200		100
10225	PCB-1260	11096-82-5	380		46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100
10225	PCB-1268	11100-14-4	39	U	39	200		100
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.2		1.2	1.2		5
10199	EFH (C15-C20)	n.a.	8.8		2.3	7.0		5
10199	EFH (C21-C30)	n.a.	40		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	110		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	0.87		0.82	0.82		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,000		120	590		1
10501	Isopropanol	67-63-0	2,200		120	590		1
10501	Methanol	67-56-1	1,900		120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	180		5.9	15		1
08283	Ethylene glycol	107-21-1	200		5.9	15		1
08283	Propylene glycol	57-55-6	210		5.9	15		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.4		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.4		1.3	1.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,900		5.83	23.2		1
07914	Boron	7440-42-8	232		1.03	5.80		1
01650	Calcium	7440-70-2	8,660		7.11	23.2		1
01654	Iron	7439-89-6	30,100		5.46	23.2		1
01656	Lithium	7439-93-2	140		0.26	2.3		1
01657	Magnesium	7439-95-4	6,920		2.94	11.6		1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	476	0.0904	0.580		1
10145	Phosphorus	7723-14-0	600	0.649	11.6		1
01662	Potassium	7440-09-7	7,200	20.9	58.0		1
01667	Sodium	7440-23-5	1,230	43.2	116		1
07968	Strontium	7440-24-6	141	0.0719	0.580		1
06969	Tin	7440-31-5	394	1.16	11.6		1
06970	Titanium	7440-32-6	1,660	0.441	1.16		1
10146	Zirconium	7440-67-7	115	0.974	5.80		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.480	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.11	0.0937	0.468		2
06126	Barium	7440-39-3	140	0.126	0.468		2
06127	Beryllium	7440-41-7	1.65	0.0187	0.117		2
06128	Cadmium	7440-43-9	1.90	0.0468	0.117		2
06131	Chromium	7440-47-3	84.2	0.141	0.468		2
06132	Cobalt	7440-48-4	67.8	0.0234	0.117		2
06133	Copper	7440-50-8	33.7	0.0773	0.468		2
06135	Lead	7439-92-1	28.4	0.0122	0.234		2
06138	Molybdenum	7439-98-7	11.8	0.0585	0.117		2
06139	Nickel	7440-02-0	65.0	0.117	0.468		2
06141	Selenium	7782-49-2	2.34	0.0468	0.468		2
06142	Silver	7440-22-4	12.2	0.0141	0.117		2
06145	Thallium	7440-28-0	0.852	0.0351	0.117		2
06148	Vanadium	7440-62-2	61.5	0.0258	0.117		2
06149	Zinc	7440-66-6	203	0.656	3.51		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.562	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.5	0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	17.2	0.94	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	576	10.5	35.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.7	1.2	5.9		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	6.4	0.21	0.59		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	

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Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

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14420 Albemarle Point Place
Suite 210
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SL133 SDG#: DE127-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 16:13	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 02:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 11:12	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 01:32	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 22:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/28/2011 15:34	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 12:10	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/19/2011 01:14	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 16:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 21:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259055
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SL133 SDG#: DE127-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/26/2011 16:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 08:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 08:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/28/2011 22:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243202A	04/29/2011 20:02	Venia B McFadden	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	389		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,300		190	580		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,100		190	580		1
04688	Benzyl alcohol	100-51-6	1,700		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	2,200		19	190		1
04688	Carbazole	86-74-8	2,000		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		39	190		1
04688	4-Chloroaniline	106-47-8	1,000		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	2,000		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		39	190		1
04688	Chrysene	218-01-9	2,000		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,900		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800		39	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400		190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,500		390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		19	390		1
04688	Fluoranthene	206-44-0	2,200		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,800		77	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,000	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,700	39	190		1
04688	4-Methylphenol	106-44-5	1,900	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,600	77	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	2,000	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,700	190	580		1
04688	Phenanthrene	85-01-8	2,000	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.78	2.0		1
10138	Acenaphthylene	208-96-8	36	0.39	2.0		1
10138	Anthracene	120-12-7	38	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	40	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	39	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	39	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	38	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	39	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	43	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	42	7.0	21		1
10138	Chrysene	218-01-9	41	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	41	0.78	2.0		1
10138	Diethylphthalate	84-66-2	33	7.0	21		1
10138	Dimethylphthalate	131-11-3	44	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55	7.0	21		1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	44		0.78	2.0		1
10138	Fluorene	86-73-7	37		0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	40		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	35		0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	32		0.78	2.0		1
10138	Naphthalene	91-20-3	34		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	38		0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	42		7.0	21		1
10138	Phenanthrene	85-01-8	40		0.78	2.0		1
10138	Pyrene	129-00-0	36		0.78	2.0		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,400		46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,400		46	140	10000000	1
10132	HMX	2691-41-0	2,100		110	340	10000000	1
10132	Nitrobenzene	98-95-3	2,200		46	140	10000000	1
10132	Nitroglycerin	55-63-0	51,000		920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		92	140	10000000	1
10132	PETN	78-11-5	62,000		920	2,800	10000000	1
10132	RDX	121-82-4	1,900		57	140	10000000	1
10132	Tetryl	479-45-8	1,500		70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		46	140	10000000	1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,200		700	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	7,400		120	390		100
10225	PCB-1016	12674-11-2	490		39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	1,100		39	200		100
10225	PCB-1254	11097-69-1	750		39	200		100
10225	PCB-1260	11096-82-5	230		46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100
10225	PCB-1268	11100-14-4	39	U	39	200		100
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	1.6		1.2	1.2		5
10199	EFH (C15-C20)	n.a.	8.9		2.3	7.0		5
10199	EFH (C21-C30)	n.a.	70		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	170		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	0.93		0.82	0.82		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,100		120	590		1
10501	Isopropanol	67-63-0	2,300		120	590		1
10501	Methanol	67-56-1	1,900		120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	210		5.9	15		1
08283	Ethylene glycol	107-21-1	220		5.9	15		1
08283	Propylene glycol	57-55-6	220		5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.4		1.3	1.3		1
10318	o-Terphenyl	84-15-1	1.7		1.5	1.5		1
10318	p-Terphenyl	92-94-4	1.4		1.3	1.3		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,600		5.77	23.0		1

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Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	229	1.02	5.74		1
01650	Calcium	7440-70-2	8,570	7.04	23.0		1
01654	Iron	7439-89-6	30,100	5.41	23.0		1
01656	Lithium	7439-93-2	138	0.25	2.3		1
01657	Magnesium	7439-95-4	7,200	2.92	11.5		1
06958	Manganese	7439-96-5	518	0.0895	0.574		1
10145	Phosphorus	7723-14-0	632	0.643	11.5		1
01662	Potassium	7440-09-7	7,310	20.7	57.4		1
01667	Sodium	7440-23-5	1,240	42.8	115		1
07968	Strontium	7440-24-6	141	0.0712	0.574		1
06969	Tin	7440-31-5	388	1.15	11.5		1
06970	Titanium	7440-32-6	1,650	0.436	1.15		1
10146	Zirconium	7440-67-7	112	0.964	5.74		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.402	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.11	0.0909	0.455		2
06126	Barium	7440-39-3	139	0.123	0.455		2
06127	Beryllium	7440-41-7	1.65	0.0182	0.114		2
06128	Cadmium	7440-43-9	11.0	0.0455	0.114		2
06131	Chromium	7440-47-3	95.6	0.136	0.455		2
06132	Cobalt	7440-48-4	68.0	0.0227	0.114		2
06133	Copper	7440-50-8	38.3	0.0750	0.455		2
06135	Lead	7439-92-1	25.6	0.0118	0.227		2
06138	Molybdenum	7439-98-7	11.8	0.0568	0.114		2
06139	Nickel	7440-02-0	75.9	0.114	0.455		2
06141	Selenium	7782-49-2	2.30	0.0455	0.455		2
06142	Silver	7440-22-4	12.1	0.0136	0.114		2
06145	Thallium	7440-28-0	0.751	0.0341	0.114		2
06148	Vanadium	7440-62-2	63.7	0.0250	0.114		2
06149	Zinc	7440-66-6	200	0.637	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.574	0.0032	0.113		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 16:30	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 03:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/25/2011 11:45	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 02:15	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 22:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/28/2011 15:53	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 12:35	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/19/2011 01:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 16:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 21:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259056
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259057
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.72	22.7		1
07914	Boron	7440-42-8	7.36		1.01	5.68		1
01650	Calcium	7440-70-2	7,750		6.97	22.7		1
01654	Iron	7439-89-6	26,900		5.35	22.7		1
01656	Lithium	7439-93-2	22.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,020		2.89	11.4		1
06958	Manganese	7439-96-5	414		0.0887	0.568		1
10145	Phosphorus	7723-14-0	514		0.637	11.4		1
01662	Potassium	7440-09-7	5,060		20.5	56.8		1
01667	Sodium	7440-23-5	105	J	42.4	114		1
07968	Strontium	7440-24-6	25.7		0.0705	0.568		1
06969	Tin	7440-31-5	3.01	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,240		0.432	1.14		1
10146	Zirconium	7440-67-7	11.0		0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.56		0.0909	0.455		2
06126	Barium	7440-39-3	124		0.123	0.455		2
06127	Beryllium	7440-41-7	0.702		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.521		0.0455	0.114		2
06131	Chromium	7440-47-3	43.2		0.136	0.455		2
06132	Cobalt	7440-48-4	8.37		0.0227	0.114		2
06133	Copper	7440-50-8	18.8		0.0750	0.455		2
06135	Lead	7439-92-1	14.3		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.598		0.0568	0.114		2
06139	Nickel	7440-02-0	39.4		0.114	0.455		2
06141	Selenium	7782-49-2	0.159	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.387		0.0136	0.114		2
06145	Thallium	7440-28-0	0.257		0.0341	0.114		2
06148	Vanadium	7440-62-2	47.5		0.0250	0.114		2
06149	Zinc	7440-66-6	192		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.377		0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.8		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.23	1.2		1

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259057
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	450		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	14.7		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 18:32	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259057
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL133 SDG#: DE127-10DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201A	04/28/2011 08:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201A	04/28/2011 08:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/28/2011 22:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 20:33	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201A	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102A	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	5.6		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	5.4		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	2.1		0.76	1.9		1
10138	Pyrene	129-00-0	3.8		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	11	U	11	37		10
10225	Aroclor 5442	12642-23-8	11	U	11	37		10
10225	Aroclor 5460	11126-42-4	11	U	11	37		10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19		10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19		10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19		10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19		10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19		10
10225	PCB-1254	11097-69-1	3.7	U	3.7	19		10
10225	PCB-1260	11096-82-5	4.4	U	4.4	19		10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19		10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19		10
	Reporting limits were raised due to interference from the sample matrix.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	3.2		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	12		0.45	1.4		1

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Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	31		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.45	21.7		1
07914	Boron	7440-42-8	4.17	J	0.964	5.42		1
01650	Calcium	7440-70-2	4,930		6.64	21.7		1
01654	Iron	7439-89-6	24,600		5.10	21.7		1
01656	Lithium	7439-93-2	24.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,710		2.75	10.8		1
06958	Manganese	7439-96-5	369		0.0845	0.542		1
10145	Phosphorus	7723-14-0	456		0.607	10.8		1
01662	Potassium	7440-09-7	4,430		19.5	54.2		1
01667	Sodium	7440-23-5	90.6	J	40.4	108		1
07968	Strontium	7440-24-6	23.0		0.0672	0.542		1
06969	Tin	7440-31-5	2.65	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,260		0.412	1.08		1
10146	Zirconium	7440-67-7	3.52	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.294		0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0884	0.442		2
06126	Barium	7440-39-3	119		0.119	0.442		2
06127	Beryllium	7440-41-7	0.707		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.278		0.0442	0.110		2
06131	Chromium	7440-47-3	27.7		0.133	0.442		2
06132	Cobalt	7440-48-4	8.27		0.0221	0.110		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	14.1		0.0729	0.442		2
06135	Lead	7439-92-1	11.9		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.462		0.0552	0.110		2
06139	Nickel	7440-02-0	17.3		0.110	0.442		2
06141	Selenium	7782-49-2	0.166	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0573	J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.274		0.0331	0.110		2
06148	Vanadium	7440-62-2	49.1		0.0243	0.110		2
06149	Zinc	7440-66-6	72.4		0.619	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0527	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.7		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.68	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 16:47	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11110SLC026	04/23/2011 11:39	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLI026	04/26/2011 09:59	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLI026	04/20/2011 09:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11110SLC026	04/21/2011 03:30	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080011A	05/05/2011 02:57	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111100004A	04/25/2011 17:01	Lindsey K Lafferty	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111100004A	04/20/2011 14:00	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080011A	04/18/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 08:00	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 20:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 19:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 15:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
07914	Boron	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259058
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL134 SDG#: DE127-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111125708003	04/27/2011 19:28	John P Hook	1
06124	Antimony	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111121026001D	04/25/2011 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111121026001C	04/25/2011 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111121026001B	04/25/2011 12:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111121026001A	04/26/2011 16:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111121026001A	04/25/2011 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111125711003	04/25/2011 11:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111125708003	04/23/2011 09:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111121026001	04/23/2011 10:41	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111125711003	04/23/2011 12:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11117621201B	04/28/2011 11:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11117621201B	04/28/2011 11:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11118621203A	04/29/2011 02:33	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243202A	04/29/2011 20:45	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201A	04/25/2011 14:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11117621201B	04/27/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11118621203A	04/28/2011 11:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201A	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182102B	04/21/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039402B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243202A	04/25/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB04-SA8N-SS-041411 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA8N-SS-041411

LLI Sample # WW 6259059
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE127-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.962	U	0.962	1.92		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
	Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Due to instrument failures, the sample was not able to be analyzed immediately after the preparation. Tetryl as a compound is very unstable, therefore the LCS/LCSD recoveries for tetryl are outside the QC limits. The client was notified and the data is reported.							

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Sample Description: EB04-SA8N-SS-041411 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA8N-SS-041411

LLI Sample # WW 6259059
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE127-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.62		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.088	U	0.088	0.27		1
10319	o-Terphenyl	84-15-1	0.088	U	0.088	0.27		1
10319	p-Terphenyl	92-94-4	0.088	U	0.088	0.27		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	6.0		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA8N-SS-041411 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA8N-SS-041411

LLI Sample # WW 6259059
LLI Group # 1242326
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:30

Submitted: 04/15/2011 09:55
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-04 SDG#: DE127-11EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 14:13	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111090002A	05/18/2011 08:45	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111060002A	04/18/2011 18:33	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111060002A	04/17/2011 06:30	Olivia Arosemena	1
11122	Energetics Extraction	SW-846 8330	1	111090002A	04/19/2011 16:00	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111080006A	04/26/2011 04:40	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111090026A	04/20/2011 23:26	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111050020A	04/16/2011 01:30	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111080007A	04/20/2011 19:58	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111080006A	04/18/2011 14:00	Kelli M Barto	1
10304	Terphenyls water prep	SW-846 3510C	1	111080007A	04/18/2011 18:00	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11105196603C	04/16/2011 07:59	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11109117101B	04/20/2011 14:03	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11109117101B	04/19/2011 22:45	James S Mathiot	1
00200	18b pH by 9040B	SW-846 9040B	1	11108020001A	04/18/2011 20:00	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109SLI026	Sample number(s): 6259046-6259056,6259058									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	91		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	89		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11110SLC026	Sample number(s): 6259046-6259056,6259058									
Acenaphthene	17	U	17.	170	ug/kg	100		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	103		75-122		
Aniline	170 U		170.	500	ug/kg	65		34-94		
Anthracene	17	U	17.	170	ug/kg	106		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	104		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	93		67-125		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	109		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	108		79-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbazole	17	U	17.	170	ug/kg	106		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	45		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Chrysene	17	U	17.	170	ug/kg	103		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	101		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	95		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	95		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	65		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	97		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	97		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	85		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	114*		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	115		75-117		
Fluoranthene	17	U	17.	170	ug/kg	108		78-116		
Fluorene	17	U	17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	94		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	100		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
Naphthalene	17	U	17.	170	ug/kg	97		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	99		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	111		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	84		51-117		
Phenanthrene	17	U	17.	170	ug/kg	104		77-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenol	17	U	17.	170	ug/kg	90		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	101		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11110SLG026	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	74		70-130		
Batch number: 11110WAF026	Sample number(s): 6259059									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	60*	77	70-130	25	30
Batch number: 111080011A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	120		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	105	54-134	1	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	104	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	115		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
HMX	100	U	100.	300	ug/kg	110		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	112		80-120		
PETN	800	U	800.	2,400	ug/kg	127*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	79		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111090002A	Sample number(s): 6259059									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	97	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	97	98	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	94	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	87	91	65-125	4	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	88	88	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	92	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	96	94	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	84	87	70-125	4	30
Tetryl	0.40	U	0.40	0.60	ug/l	50*	56*	72-141	11	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	69	72	53-129	4	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	95	76-109	1	30
Batch number: 111060002A	Sample number(s): 6259059									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	100	100	69-130	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111100005A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 111100004A	Sample number(s): 6259047-6259056,6259058									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74	90	36-106	20	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	75		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111160021A	Sample number(s): 6259046									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	80	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111080006A	Sample number(s): 6259059									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	114	114	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	116	116	60-120	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	108	108	60-120	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	113	107	60-120	6	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	84	82	60-120	2	30
Batch number: 111110016A	Sample number(s): 6259045-6259050,6259054-6259056,6259058									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		66-113		
Batch number: 111050020A	Sample number(s): 6259059									
Diethylene glycol	10	U	10.	100	mg/l	90		78-126		
Ethylene glycol	10	U	10.	100	mg/l	85		80-124		
Propylene glycol	10	U	10.	100	mg/l	85		80-120		
Batch number: 111080028A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	93		75-125		
Methanol	100		100.	500	ug/kg	93		68-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U									
Batch number: 111090001A	Sample number(s): 6259045,6259047-6259050,6259054-6259056									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111090026A	Sample number(s): 6259059									
Ethanol	200	U	200.	1,000	ug/l	96		66-132		
Isopropanol	200	U	200.	1,000	ug/l	96		75-125		
Methanol	200	U	200.	1,000	ug/l	96		71-140		
Batch number: 111100003A	Sample number(s): 6259058									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111080007A	Sample number(s): 6259059									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	84	80	75-125	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	83	80	75-125	4	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	82	79	75-125	3	20
Batch number: 111100030A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111121026001A	Sample number(s): 6259046-6259058									
Antimony	0.0594	U	0.0594	0.198	mg/kg	66		27-181		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	101		83-113		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	98		86-111		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	102		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	105		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	102		82-118		
Copper	0.0653	U	0.0653	0.396	mg/kg	97		83-110		
Lead	0.0103	U	0.0103	0.198	mg/kg	97		83-110		
Nickel	0.0990	U	0.0990	0.396	mg/kg	98		81-110		
Silver	0.0119	U	0.0119	0.0990	mg/kg	101		81-111		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	95		83-110		
Vanadium	0.0708	J	0.0218	0.0990	mg/kg	97		84-116		
Zinc	0.554	U	0.554	2.97	mg/kg	102		81-112		
Batch number: 111121026001B	Sample number(s): 6259046-6259058									
Selenium	0.0396	U	0.0396	0.396	mg/kg	99		83-111		
Batch number: 111121026001C	Sample number(s): 6259046-6259058									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	103		78-122		
Batch number: 111121026001D	Sample number(s): 6259046-6259058									
Barium	0.107	U	0.107	0.396	mg/kg	98		81-111		
Batch number: 111125708003	Sample number(s): 6259046-6259058									
Aluminum	5.43	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	94		78-110		
Calcium	10.0	J	6.07	19.8	mg/kg	101		88-110		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	4.66	U	4.66	19.8	mg/kg	88		61-110		
Lithium	0.41	J	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	100		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	99		89-112		
Phosphorus	1.22	J	0.554	9.90	mg/kg	104		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	99		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	104		86-110		
Tin	1.33	J	0.990	9.90	mg/kg	98		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	87		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	103		80-120		
Batch number: 111125711003	Sample number(s): 6259046-6259058									
Mercury	0.0028	U	0.0028	0.0994	mg/kg	112		88-123		
Batch number: 11105196603C	Sample number(s): 6259059									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	98	104	90-110	6	20
Batch number: 11109117101B	Sample number(s): 6259059									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	98	100	90-110	2	20
Batch number: 11114102201A	Sample number(s): 6259045,6259047-6259050,6259054-6259055,6259057-6259058									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	106		80-120		
Batch number: 11115243202A	Sample number(s): 6259046-6259055,6259057-6259058									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11117621201A	Sample number(s): 6259045-6259055,6259057									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	95		90-110		
Batch number: 11117621201B	Sample number(s): 6259058									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	95		90-110		
Batch number: 11118621203A	Sample number(s): 6259046-6259055,6259057-6259058									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11108020001A	Sample number(s): 6259059									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11111039402A	Sample number(s): 6259046-6259054,6259057									
18a pH by 9045C						100		95-105		
Batch number: 11111039402B	Sample number(s): 6259058									
18a pH by 9045C						100		95-105		
Batch number: 11111182102A	Sample number(s): 6259046-6259054,6259057									
32a OR Potential						100		98-102		
Batch number: 11111182102B	Sample number(s): 6259058									
32a OR Potential						100		98-102		
Batch number: 11111162401B	Sample number(s): 6259046,6259051-6259053									
Moisture Content by 160.3						99		80-120		
Batch number: 11129162401A	Sample number(s): 6259045,6259047-6259050,6259054-6259058									
28a Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109SLI026	Sample number(s): 6259046-6259056,6259058 UNSPK: 6259054								
Acenaphthene	91	91	63-105	0	30				
Acenaphthylene	89	92	67-114	3	30				
Anthracene	93	98	60-122	5	30				
Benzo(a)anthracene	93	98	59-128	5	30				
Benzo(a)pyrene	91	96	45-138	5	30				
Benzo(b)fluoranthene	90	93	43-155	4	30				
Benzo(g,h,i)perylene	96	94	33-141	2	30				
Benzo(k)fluoranthene	93	98	42-144	5	30				
Butylbenzylphthalate	105	109	57-173	4	30				
Di-n-butylphthalate	100	107	65-148	7	30				
Chrysene	87	95	48-134	8	30				
Dibenz(a,h)anthracene	105	105	22-133	0	30				
Diethylphthalate	82	85	70-136	3	30				
Dimethylphthalate	98	114	74-118	15	30				
Bis(2-Ethylhexyl)phthalate	-7*	17*	39-167	19	30				
Fluoranthene	77	91	26-166	14	30				
Fluorene	90	91	66-122	1	30				
Indeno(1,2,3-cd)pyrene	102	101	21-143	0	30				
1-Methylnaphthalene	84	83	72-123	2	30				
2-Methylnaphthalene	72	72	64-103	0	30				
Naphthalene	77	75	61-102	1	30				
N-Nitrosodimethylamine	95	98	48-113	3	30				
Di-n-octylphthalate	104	108	40-192	4	30				
Phenanthrene	65	75	12-165	10	30				
Pyrene	77	79	15-153	2	30				
Batch number: 11110SLC026	Sample number(s): 6259046-6259056,6259058 UNSPK: 6259054								
Acenaphthene	99	98	75-115	1	30				
Acenaphthylene	102	99	81-110	3	30				
Aniline	63	65	35-95	2	30				
Anthracene	100	101	75-115	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	102	100	65-122	2	30				
Benzo(a)pyrene	94	93	57-126	2	30				
Benzo(b)fluoranthene	88	84	59-125	4	30				
Benzo(g,h,i)perylene	103	101	59-127	2	30				
Benzo(k)fluoranthene	90	94	56-132	4	30				
Benzoic acid	60	56	10-173	8	30				
Benzyl alcohol	88	89	67-115	1	30				
4-Bromophenyl-phenylether	98	95	67-129	3	30				
Butylbenzylphthalate	106	107	73-134	0	30				
Di-n-butylphthalate	107	110	67-123	4	30				
Carbazole	100	102	64-120	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	91	90	76-110	1	30				
4-Chloroaniline	55	53	23-95	4	30				
bis(2-Chloroethoxy)methane	99	95	75-104	4	30				
bis(2-Chloroethyl)ether	99	96	60-116	4	30				
bis(2-Chloroisopropyl)ether	88	87	55-142	1	30				
2-Chloronaphthalene	75	102	50-141	30	30				
2-Chlorophenol	97	94	73-121	3	30				
4-Chlorophenyl-phenylether	98	95	80-109	3	30				
Chrysene	99	100	62-128	1	30				
Dibenz(a,h)anthracene	103	103	65-125	0	30				
Dibenzofuran	99	97	71-112	2	30				
1,2-Dichlorobenzene	88	87	66-108	2	30				
1,3-Dichlorobenzene	89	87	63-109	3	30				
1,4-Dichlorobenzene	89	89	70-100	1	30				
3,3'-Dichlorobenzidine	76	77	16-119	2	30				
2,4-Dichlorophenol	98	94	78-117	4	30				
Diethylphthalate	98	97	66-118	0	30				
2,4-Dimethylphenol	97	95	78-110	2	30				
3,5-Dimethylphenol	97	93	70-130	4	30				
Dimethylphthalate	96	95	64-118	1	30				
4,6-Dinitro-2-methylphenol	77	74	24-116	4	30				
2,4-Dinitrophenol	67	64	20-143	3	30				
2,4-Dinitrotoluene	93	94	73-113	1	30				
2,6-Dinitrotoluene	97	93	69-123	5	30				
1,2-Diphenylhydrazine	109	106	71-129	3	30				
bis(2-Ethylhexyl)phthalate	115	116	63-122	1	30				
Fluoranthene	106	112	73-112	6	30				
Fluorene	99	99	77-111	0	30				
Hexachlorobenzene	98	94	77-114	4	30				
Hexachlorobutadiene	97	92	62-120	5	30				
Hexachlorocyclopentadiene	62	53	10-153	17	30				
Hexachloroethane	88	85	57-109	4	30				
Indeno(1,2,3-cd)pyrene	101	99	61-126	2	30				
Isophorone	96	92	73-102	4	30				
1-Methylnaphthalene	97	92	73-112	5	30				
2-Methylnaphthalene	89	87	76-114	2	30				
2-Methylphenol	89	88	75-111	1	30				
4-Methylphenol	97	98	71-111	0	30				
Naphthalene	96	93	72-116	3	30				
2-Nitroaniline	99	98	67-125	1	30				
3-Nitroaniline	89	89	59-122	0	30				
4-Nitroaniline	87	85	52-112	2	30				
Nitrobenzene	101	97	72-106	5	30				
2-Nitrophenol	99	96	74-115	3	30				
4-Nitrophenol	101	101	54-113	0	30				
N-Nitroso-di-n-propylamine	90	89	60-116	1	30				
N-Nitrosodimethylamine	94	90	47-116	4	30				
N-Nitrosodiphenylamine	104	102	86-145	2	30				
Di-n-octylphthalate	95	96	56-126	1	30				
Pentachlorophenol	80	86	28-127	7	30				
Phenanthrene	100	101	65-125	1	30				
Phenol	89	86	58-126	4	30				
Pyrene	94	94	74-126	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	101	97	72-115	5	30				
2,4,5-Trichlorophenol	99	98	78-109	1	30				
2,4,6-Trichlorophenol	102	102	77-115	1	30				
Batch number: 11110SLG026	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058 UNSPK: 6259054								
N-Nitrosodimethylamine	0*	0*	70-130	0	30				
Batch number: 111080011A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058 UNSPK: 6259054								
4-Amino-2,6-Dinitrotoluene	92	104	80-127	12	50				
2-Amino-4,6-Dinitrotoluene	89	101	80-137	12	50				
1,3-Dinitrobenzene	91	103	38-166	12	50				
2,4-Dinitrotoluene	88	100	80-131	13	50				
2,6-Dinitrotoluene	93	104	80-127	11	50				
HMX	82	91	63-128	10	50				
Nitrobenzene	86	96	80-125	11	50				
Nitroglycerin	81	92	80-120	12	50				
2-Nitrotoluene	88	99	80-122	12	50				
3-Nitrotoluene	91	103	72-119	12	50				
4-Nitrotoluene	86	98	80-125	13	50				
PETN	99	112	80-121	12	50				
RDX	76	84	75-129	9	50				
Tetryl	57	64	55-174	11	50				
1,3,5-Trinitrobenzene	85	95	82-126	11	50				
2,4,6-Trinitrotoluene	88	101	82-130	13	50				
Batch number: 111100005A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058 UNSPK: 6259054								
25a Formaldehyde 8315A	94	89	80-120	5	50				
Batch number: 111100004A	Sample number(s): 6259047-6259056,6259058 UNSPK: 6259054								
PCB-1016	1932*	2507*	29-146	26	50				
PCB-1260	1953*	1165*	39-149	51*	50				
Batch number: 111160021A	Sample number(s): 6259046 UNSPK: P264819								
PCB-1016	89	98	29-146	10	50				
PCB-1260	106	104	39-149	1	50				
Batch number: 111110016A	Sample number(s): 6259045-6259050,6259054-6259056,6259058 UNSPK: 6259054								
EFH (C12-C14)	124*	169*	49-123	30*	20				
EFH (C15-C20)	-63 (2)	-59 (2)	49-123	1	20				
EFH (C21-C30)	-161 (2)	1080 (2)	49-123	55*	20				
EFH (C30 - C40)	-738 (2)	1327 (2)	49-123	42*	20				
EFH (C8-C11)	88	95	49-123	7	20				
Batch number: 111050020A	Sample number(s): 6259059 UNSPK: P257881								
Diethylene glycol	85	100	83-130	16	20				
Ethylene glycol	80*	85*	89-125	6	20				
Propylene glycol	90*	90*	91-128	0	20				
Batch number: 111080028A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058 UNSPK: 6259054								
Ethanol	70	71	48-130	1	20				
Isopropanol	77	77	12-149	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	64	64	43-138	0	20				
Batch number: 111090001A	Sample number(s): 6259045,6259047-6259050,6259054-6259056 UNSPK: 6259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111090026A	Sample number(s): 6259059 UNSPK: P259062								
Ethanol	96	96	62-145	0	20				
Isopropanol	96	96	73-131	0	20				
Methanol	85	89	52-159	4	20				
Batch number: 111100003A	Sample number(s): 6259058 UNSPK: 6259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111100030A	Sample number(s): 6259045,6259047-6259050,6259054-6259056,6259058 UNSPK: 6259054								
m-Terphenyl	85	83	75-125	2	20				
o-Terphenyl	92	88	75-125	4	20				
p-Terphenyl	85	86	75-125	1	20				
Batch number: 111121026001A	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054								
Antimony	26*	21*	75-125	18	20	0.100 J	0.104 J	4 (1)	20
Arsenic	74*	77	75-125	0	20	4.59	3.90	16	20
Beryllium	101	105	75-125	0	20	0.595	0.600	1	20
Cadmium	115	919*	75-125	141*	20	0.477	0.445	7 (1)	20
Chromium	231 (2)	338 (2)	75-125	13	20	48.8	36.9	28*	20
Cobalt	100	103	75-125	0	20	8.13	7.15	13	20
Copper	115	158*	75-125	13	20	17.3	16.1	7	20
Lead	-3906 (2)	-4107 (2)	75-125	11	20	141	12.2	168*	20
Nickel	173*	274*	75-125	16	20	38.2	33.7	13	20
Silver	102	104	75-125	1	20	0.247	0.330	29* (1)	20
Thallium	128*	110	75-125	13	20	0.216	0.220	2 (1)	20
Vanadium	112 (2)	135 (2)	75-125	4	20	41.3	40.5	2	20
Zinc	-68 (2)	-88 (2)	75-125	1	20	180	164	9	20
Batch number: 111121026001B	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054								
Selenium	93	94	75-125	2	20	0.144 J	0.135 J	6 (1)	20
Batch number: 111121026001C	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054								
Molybdenum	93	96	75-125	0	20	0.770	0.511	40*	20
Batch number: 111121026001D	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054								
Barium	61 (2)	61 (2)	75-125	0	20	113	106	7	20
Batch number: 111125708003	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054								
Aluminum	2549 (2)	2444 (2)	75-125	1	20	19,700	19,000	3	20
Boron	97	97	84-115	2	20	5.91	6.29	6 (1)	20
Calcium	144 (2)	127 (2)	75-125	1	20	6,820	6,620	3	20
Iron	2282	2292	75-125	0	20	23,400	23,000	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
	(2)	(2)									
Lithium	101	101	82-114	1	20	19.4		19.2		1	20
Magnesium	315 (2)	437 (2)	75-125	4	20	5,290		5,140		3	20
Manganese	101 (2)	175 (2)	75-125	8	20	357		354		1	20
Phosphorus	33 (2)	62 (2)	75-125	5	20	479		439		9	20
Potassium	171 (2)	181 (2)	75-125	1	20	4,460		4,320		3	20
Sodium	97	98	75-125	1	20	91.8	J	89.7	J	2 (1)	20
Strontium	98	98	75-115	1	20	23.6		21.9		7	20
Tin	84	84	80-110	2	20	2.47	J	2.57	J	4 (1)	20
Titanium	325 (2)	326 (2)	75-125	0	20	1,090		1,060		3	20
Zirconium	95	94	75-125	3	20	3.71	J	9.37		87* (1)	20
Batch number: 111125711003	Sample number(s): 6259046-6259058 UNSPK: 6259054 BKG: 6259054										
Mercury	134	138*	65-135	2	20	0.267		0.322		18 (1)	20
Batch number: 11114102201A	Sample number(s): 6259045,6259047-6259050,6259054-6259055,6259057-6259058 UNSPK: 6259054 BKG: 6259054										
17a Cyanide by 9012B	108		75-125			0.18	U	0.19	U	0 (1)	20
Batch number: 11115243202A	Sample number(s): 6259046-6259055,6259057-6259058 UNSPK: 6259054 BKG: 6259054										
3a Cr VI by EPA 7199	98		75-125			0.57	J	0.50	J	14 (1)	20
Batch number: 11117621201A	Sample number(s): 6259045-6259055,6259057 UNSPK: 6259054 BKG: 6259054										
11a Anions by 300.0 - Fluoride	65*		80-120			2.4		1.9		24* (1)	20
11a Anions by 300.0 - Nitrate	69*		80-120			7.7		6.6		15 (1)	20
Batch number: 11117621201B	Sample number(s): 6259058 UNSPK: 6259058 BKG: 6259058										
11a Anions by 300.0 - Fluoride	47*		80-120			1.7		1.4		17 (1)	20
11a Anions by 300.0 - Nitrate	105		80-120			4.1		4.3		3 (1)	20
Batch number: 11118621203A	Sample number(s): 6259046-6259055,6259057-6259058 UNSPK: 6259054 BKG: 6259054										
7a Perchlorate EPA 314.0	97		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11111039402A	Sample number(s): 6259046-6259054,6259057 BKG: 6259054										
18a pH by 9045C						7.20		7.20		0	1
Batch number: 11111039402B	Sample number(s): 6259058 BKG: P111039										
18a pH by 9045C						6.47		6.42		1	1
Batch number: 11111182102A	Sample number(s): 6259046-6259054,6259057 BKG: 6259054										
32a OR Potential						451		450		0	6
Batch number: 11111182102B	Sample number(s): 6259058 BKG: P259085										
32a OR Potential						451		454		1	6
Batch number: 11111162401B	Sample number(s): 6259046,6259051-6259053 BKG: 6259051										
Moisture Content by 160.3						15.5		14.6		6	20
Batch number: 11129162401A	Sample number(s): 6259045,6259047-6259050,6259054-6259058 BKG: 6259054										
28a Moisture Content by 160.3						14.6		14.7		1	20
Moisture Content by 160.3						14.6		14.7		1	20
Moisture Content by 160.3						14.6		14.7		1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11109SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6259046	101	96	83
6259047	95	88	83
6259048	99	92	86
6259049	108	95	88
6259050	98	91	86
6259051	153*	72	80
6259052	113	100	82
6259053	98	89	76
6259054	102	94	89
6259055	95	86	86
6259056	101	92	86
6259058	103	92	83
Blank	95	88	98
LCS	96	88	97
MS	95	86	86
MSD	101	92	86
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11110SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6259046	90	99	89	95	99	81
6259047	84	89	87	87	92	79
6259048	94	100	95	97	97	85
6259049	88	93	91	89	90	80
6259050	93	99	96	96	95	84
6259051	97	102	100	97	96	86
6259052	96	101	95	94	93	79
6259053	94	101	91	95	94	79
6259054	92	99	91	93	99	83
6259055	91	99	92	97	99	82
6259056	90	96	92	93	97	80
6259058	90	96	91	93	94	81
Blank	89	96	84	92	96	87
LCS	92	99	94	96	98	86
MS	91	99	92	97	99	82
MSD	90	96	92	93	97	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11110SLG026

	N-Nitrosodimethylamine-d6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

6259045	102
6259047	89
6259048	94
6259049	90
6259050	87
6259054	92
6259055	89
6259056	92
6259058	103
Blank	68
LCS	61
MS	89
MSD	92

Limits: 50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11110WAF026

	N-Nitrosodimethylamine-d6
6259059	121
Blank	82
LCS	141
LCSD	97

Limits: 50-150

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111060002A

	Butyraldehyde
6259059	66
Blank	98
LCS	91
LCSD	93

Limits: 45-145

Analysis Name: 16a Energetics by 8330A
Batch number: 111080011A

	2-Nitro-m-xylene
6259045	99
6259047	103
6259048	99
6259049	100
6259050	103
6259054	102
6259055	88
6259056	100
6259058	106
Blank	113
LCS	111
LCSD	108
MS	88
MSD	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111090002A

	2-Nitro-m-xylene
6259059	68
Blank	80
LCS	77
LCSD	62

Limits: 50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111100004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6259047	81	67
6259048	82	76
6259049	89	104
6259050	90	84
6259051	83	91
6259052	86	92
6259053	65	55
6259054	118	532*
6259055	91	581*
6259056	101	625*
6259058	96	109
Blank	91	111
LCS	79	106
LCSD	96	122*
MS	91	581*
MSD	101	625*
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111100005A

	Butyraldehyde
6259045	105
6259047	106
6259048	112
6259049	113
6259050	108
6259054	114
6259055	112
6259056	103
6259058	113
Blank	109
LCS	105
MS	112
MSD	103
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111160021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6259046	90	87
Blank	94	109
LCS	88	107
LCSD	74	111
MS	93	80
MSD	91	75
Limits:	53-139	45-120

Analysis Name: 21b Glycols by 8015B
Batch number: 111050020A

	Tetramethylene glycol
6259059	85
Blank	84
LCS	91
MS	109
MSD	94
Limits:	77-119

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111080006A

	Chlorobenzene	Orthoterphenyl
6259059	96	64
Blank	98	66
LCS	96	97
LCSD	94	98
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111080007A

	n-Triacontane-d62
6259059	68
Blank	69
LCS	68
LCSD	64
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111080028A

	Acetone
6259045	74
6259047	80
6259048	68
6259049	77
6259050	72
6259054	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

6259055	78
6259056	79
6259058	72
Blank	96
LCS	95
MS	78
MSD	79

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

Tetramethylene glycol

6259045	61
6259047	67
6259048	63
6259049	73
6259050	65
6259054	63
6259055	90
6259056	86
Blank	92
LCS	105
MS	90
MSD	86

Limits: 29-137

Analysis Name: 19b Alcohols by 8015B
Batch number: 111090026A

Acetone

6259059	97
Blank	94
LCS	99
MS	101
MSD	98

Limits: 54-147

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

Tetramethylene glycol

6259058	84
Blank	104
LCS	104
MS	110
MSD	91

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111100030A

n-Triacontane-d62

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242326
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

6259045	65
6259047	68
6259048	47*
6259049	45*
6259050	57
6259054	57
6259055	118
6259056	218*
6259058	67
Blank	103
LCS	77
MS	118
MSD	218*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110016A

	Chlorobenzene	Orthoterphenyl
6259045	81	102
6259046	84	97
6259047	84	89
6259048	86	97
6259049	65	74
6259050	84	94
6259054	89	102
6259055	86	103
6259056	88	97
6259058	71	96
Blank	95	87
LCS	84	98
MS	86	103
MSD	88	97
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1242326 6259045-59

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
DUP03-SA8N-QC-041411	04.14.11	1525	SOIL	NONE	1-16 oz jar										X	X	X	X	X	X	X	X	X	
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	1 SS sleeve			X	X															
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	1 SS sleeve			X	X															
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	1 SS sleeve			X	X															
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	1 SS sleeve			X	X															
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	1 SS sleeve			X	X															
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1 SS sleeve			X	X															
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1 SS sleeve			X	X															
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1 SS sleeve			X	X															
SL-133-SA8N-SS-0.0-0.5MS	04.14.11	1520	SOIL	NONE	2-16 oz jars										X	X	X	X	X	X	X	X	X	
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1 SS sleeve			X	X															
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/14/2011 / 1700	4/15/11 955	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1367 6216; 8700 5932 3168 8700 5930 9896	

13013 1242326 6259045-59

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Steve J. Brute																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB04-SA8N-SS-041411	04.14.11	1230	WATER	NONE	5-1 liter ambers											X			X	X		X			
EB04-SA8N-SS-041411	04.14.11	1230	WATER	NaOH	1-500 mL glass																X				
EB04-SA8N-SS-041411	04.14.11	1230	WATER	NONE	1-250 mL glass													X							
EB04-SA8N-SS-041411	04.14.11	1230	WATER	HCl	2-40 mL vials																				X
EB04-SA8N-SS-041411	04.14.11	1230	WATER	NONE	4-40 mL vials												X						X		
Relinquished by: (Signature)	Date/Time: 04/14/2011 / 1700		Received for Laboratory by: (Signature): 4/15/11 955																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s): 8695 1367 6216; 8700 5932 3168 8700 5930 9896																						

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242329
SDG: DX071
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-040-SA8N-SS-0.0-0.5 Soil	6259072
SL-078-SA8N-SS-0.0-0.5 Soil	6259073
SL-079-SA8N-SS-0.0-0.5 Soil	6259074
SL-082-SA8N-SS-0.0-0.5 Soil	6259075
SL-089-SA8N-SS-0.0-0.5 Soil	6259076
SL-090-SA8N-SS-0.0-0.5 Soil	6259077
SL-091-SA8N-SS-0.0-0.5 Soil	6259078
SL-130-SA8N-SS-0.0-0.5 Soil	6259079
SL-133-SA8N-SS-0.0-0.5 Soil	6259080
SL-133-SA8N-SS-0.0-0.5MS Soil	6259081
SL-133-SA8N-SS-0.0-0.5MSD Soil	6259082
SL-134-SA8N-SS-0.0-0.5 Soil	6259083

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	JQ	0.0227	1.08	1
11031	12378-PeCDD	40321-76-4	0.157	JB	0.0325	5.38	1
11031	123478-HxCDD	39227-28-6	0.183	JB	0.0746	5.38	1
11031	123678-HxCDD	57653-85-7	1.03	JB	0.0731	5.38	1
11031	123789-HxCDD	19408-74-3	0.769	JB	0.0686	5.38	1
11031	1234678-HpCDD	35822-46-9	20.7	B	0.0744	5.38	1
11031	OCDD	3268-87-9	220	B	0.107	10.8	1
11031	2378-TCDF	51207-31-9	0.109	JQ	0.0635	1.08	1
11031	12378-PeCDF	57117-41-6	0.374	JB	0.0358	5.38	1
11031	23478-PeCDF	57117-31-4	0.624	JB	0.0338	5.38	1
11031	123478-HxCDF	70648-26-9	0.119	JBQ	0.0718	5.38	1
11031	123678-HxCDF	57117-44-9	0.279	JB	0.0580	5.38	1
11031	123789-HxCDF	72918-21-9	0.442	JB	0.0512	5.38	1
11031	234678-HxCDF	60851-34-5	0.379	JB	0.0474	5.38	1
11031	1234678-HpCDF	67562-39-4	2.67	JB	0.0495	5.38	1
11031	1234789-HpCDF	55673-89-7	0.264	JB	0.0521	5.38	1
11031	OCDF	39001-02-0	7.48	JB	0.0562	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SS-0.0-0.5

LLI Sample # SW 6259072
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:00

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD040 SDG#: DX071-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 18:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183 U	0.0183	1.15	1
11031	12378-PeCDD	40321-76-4	0.0403 JBQ	0.0255	5.75	1
11031	123478-HxCDD	39227-28-6	0.0208 U	0.0208	5.75	1
11031	123678-HxCDD	57653-85-7	0.106 JB	0.0214	5.75	1
11031	123789-HxCDD	19408-74-3	0.124 JB	0.0206	5.75	1
11031	1234678-HpCDD	35822-46-9	1.14 JB	0.0454	5.75	1
11031	OCDD	3268-87-9	10.6 JB	0.0542	11.5	1
11031	2378-TCDF	51207-31-9	0.130 JQ	0.0809	1.15	1
11031	12378-PeCDF	57117-41-6	0.746 JB	0.0334	5.75	1
11031	23478-PeCDF	57117-31-4	0.211 JB	0.0328	5.75	1
11031	123478-HxCDF	70648-26-9	0.376 JB	0.0249	5.75	1
11031	123678-HxCDF	57117-44-9	0.0915 JB	0.0205	5.75	1
11031	123789-HxCDF	72918-21-9	0.0857 JB	0.0243	5.75	1
11031	234678-HxCDF	60851-34-5	0.0607 JBQ	0.0198	5.75	1
11031	1234678-HpCDF	67562-39-4	0.345 JB	0.0197	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0269 U	0.0269	5.75	1
11031	OCDF	39001-02-0	0.681 JBQ	0.0513	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SS-0.0-0.5

LLI Sample # SW 6259073
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD078 SDG#: DX071-02

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 19:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	J	0.0196	1.21	1
11031	12378-PeCDD	40321-76-4	0.350	JBQ	0.0386	6.03	1
11031	123478-HxCDD	39227-28-6	0.401	JB	0.0839	6.03	1
11031	123678-HxCDD	57653-85-7	1.48	JB	0.0821	6.03	1
11031	123789-HxCDD	19408-74-3	1.44	JB	0.0755	6.03	1
11031	1234678-HpCDD	35822-46-9	22.3	B	0.0711	6.03	1
11031	OCDD	3268-87-9	180	B	0.0601	12.1	1
11031	2378-TCDF	51207-31-9	0.733	JQ	0.0874	1.21	1
11031	12378-PeCDF	57117-41-6	0.610	JBQ	0.0358	6.03	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0368	6.03	1
11031	123478-HxCDF	70648-26-9	0.901	JB	0.0724	6.03	1
11031	123678-HxCDF	57117-44-9	0.509	JB	0.0559	6.03	1
11031	123789-HxCDF	72918-21-9	0.785	JB	0.0481	6.03	1
11031	234678-HxCDF	60851-34-5	0.535	JB	0.0450	6.03	1
11031	1234678-HpCDF	67562-39-4	3.29	JB	0.0289	6.03	1
11031	1234789-HpCDF	55673-89-7	0.324	JB	0.0318	6.03	1
11031	OCDF	39001-02-0	6.41	JB	0.0398	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SS-0.0-0.5

LLI Sample # SW 6259074
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:30

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX071-03

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/22/2011 23:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0262	JQ	0.0233	1.10	1
11031	12378-PeCDD	40321-76-4	0.341	JB	0.0532	5.51	1
11031	123478-HxCDD	39227-28-6	0.303	JB	0.0769	5.51	1
11031	123678-HxCDD	57653-85-7	1.65	JB	0.0778	5.51	1
11031	123789-HxCDD	19408-74-3	2.01	JB	0.0724	5.51	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0569	5.51	1
11031	OCDD	3268-87-9	138	B	0.0496	11.0	1
11031	2378-TCDF	51207-31-9	18.9		0.379	1.10	1
11650	2378-TCDF-Conf	51207-31-9	16.4	B	0.0573	1.10	1
11031	12378-PeCDF	57117-41-6	8.88	B	0.0959	5.51	1
11031	23478-PeCDF	57117-31-4	1.83	JB	0.0972	5.51	1
11031	123478-HxCDF	70648-26-9	3.63	JB	0.113	5.51	1
11031	123678-HxCDF	57117-44-9	0.931	JB	0.0839	5.51	1
11031	123789-HxCDF	72918-21-9	0.927	JB	0.0787	5.51	1
11031	234678-HxCDF	60851-34-5	0.571	JB	0.0673	5.51	1
11031	1234678-HpCDF	67562-39-4	3.31	JB	0.0287	5.51	1
11031	1234789-HpCDF	55673-89-7	0.380	JBQ	0.0345	5.51	1
11031	OCDF	39001-02-0	4.86	JB	0.0360	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA8N-SS-0.0-0.5

LLI Sample # SW 6259075
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:35

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX071-04

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 00:28	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 04:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.17	1
11031	12378-PeCDD	40321-76-4	0.127	JB	0.0248	5.83	1
11031	123478-HxCDD	39227-28-6	0.0596	JB	0.0391	5.83	1
11031	123678-HxCDD	57653-85-7	0.810	JB	0.0392	5.83	1
11031	123789-HxCDD	19408-74-3	1.13	JB	0.0360	5.83	1
11031	1234678-HpCDD	35822-46-9	4.15	JB	0.0427	5.83	1
11031	OCDD	3268-87-9	37.7	B	0.0472	11.7	1
11031	2378-TCDF	51207-31-9	0.0753	JQ	0.0281	1.17	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.0184	5.83	1
11031	23478-PeCDF	57117-31-4	0.219	JB	0.0184	5.83	1
11031	123478-HxCDF	70648-26-9	0.0678	JBQ	0.0358	5.83	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0262	5.83	1
11031	123789-HxCDF	72918-21-9	1.01	JB	0.0258	5.83	1
11031	234678-HxCDF	60851-34-5	0.154	JB	0.0219	5.83	1
11031	1234678-HpCDF	67562-39-4	0.653	JB	0.0233	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0753	JBQ	0.0293	5.83	1
11031	OCDF	39001-02-0	1.18	JB	0.0352	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA8N-SS-0.0-0.5

LLI Sample # SW 6259076
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:10

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX071-05

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 01:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0196	J	0.0134	1.18	1
11031	12378-PeCDD	40321-76-4	0.217	JBQ	0.0251	5.91	1
11031	123478-HxCDD	39227-28-6	0.144	JBQ	0.0457	5.91	1
11031	123678-HxCDD	57653-85-7	1.28	JB	0.0400	5.91	1
11031	123789-HxCDD	19408-74-3	1.52	JB	0.0346	5.91	1
11031	1234678-HpCDD	35822-46-9	12.3	B	0.0421	5.91	1
11031	OCDD	3268-87-9	106	B	0.0490	11.8	1
11031	2378-TCDF	51207-31-9	0.172	JQ	0.0338	1.18	1
11031	12378-PeCDF	57117-41-6	0.247	JBQ	0.0160	5.91	1
11031	23478-PeCDF	57117-31-4	0.395	JB	0.0167	5.91	1
11031	123478-HxCDF	70648-26-9	0.146	JB	0.0534	5.91	1
11031	123678-HxCDF	57117-44-9	0.259	JB	0.0372	5.91	1
11031	123789-HxCDF	72918-21-9	0.798	JB	0.0233	5.91	1
11031	234678-HxCDF	60851-34-5	0.208	JB	0.0200	5.91	1
11031	1234678-HpCDF	67562-39-4	2.43	JB	0.0370	5.91	1
11031	1234789-HpCDF	55673-89-7	0.132	JB	0.0269	5.91	1
11031	OCDF	39001-02-0	3.33	JB	0.0219	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA8N-SS-0.0-0.5

LLI Sample # SW 6259077
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 16:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX071-06

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 13:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177	U	0.0177	1.19	1
11031	12378-PeCDD	40321-76-4	0.166	JBQ	0.0271	5.94	1
11031	123478-HxCDD	39227-28-6	0.186	JBQ	0.0749	5.94	1
11031	123678-HxCDD	57653-85-7	0.898	JB	0.0662	5.94	1
11031	123789-HxCDD	19408-74-3	0.977	JB	0.0511	5.94	1
11031	1234678-HpCDD	35822-46-9	8.23	B	0.0507	5.94	1
11031	OCDD	3268-87-9	75.8	B	0.0420	11.9	1
11031	2378-TCDF	51207-31-9	4.40		0.161	1.19	1
11650	2378-TCDF-Conf	51207-31-9	3.88	B	0.0486	1.19	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0465	5.94	1
11031	23478-PeCDF	57117-31-4	1.18	JB	0.0532	5.94	1
11031	123478-HxCDF	70648-26-9	1.88	JB	0.118	5.94	1
11031	123678-HxCDF	57117-44-9	0.313	JB	0.0823	5.94	1
11031	123789-HxCDF	72918-21-9	0.462	JB	0.0470	5.94	1
11031	234678-HxCDF	60851-34-5	0.370	JB	0.0408	5.94	1
11031	1234678-HpCDF	67562-39-4	1.97	JB	0.0438	5.94	1
11031	1234789-HpCDF	55673-89-7	0.191	JBQ	0.0305	5.94	1
11031	OCDF	39001-02-0	3.22	JB	0.0415	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA8N-SS-0.0-0.5

LLI Sample # SW 6259078
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:50

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD091 SDG#: DX071-07

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 03:18	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 05:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0931	JQ	0.0168	1.17	1
11031	12378-PeCDD	40321-76-4	0.388	JB	0.0392	5.85	1
11031	123478-HxCDD	39227-28-6	0.811	JB	0.0775	5.85	1
11031	123678-HxCDD	57653-85-7	4.32	JB	0.0761	5.85	1
11031	123789-HxCDD	19408-74-3	1.55	JB	0.0682	5.85	1
11031	1234678-HpCDD	35822-46-9	127	B	0.129	5.85	1
11031	OCDD	3268-87-9	1,360	B	0.0893	11.7	1
11031	2378-TCDF	51207-31-9	1.05	J	0.167	1.17	1
11031	12378-PeCDF	57117-41-6	1.95	JB	0.0577	5.85	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0539	5.85	1
11031	123478-HxCDF	70648-26-9	2.41	JB	0.0907	5.85	1
11031	123678-HxCDF	57117-44-9	0.782	JB	0.0709	5.85	1
11031	123789-HxCDF	72918-21-9	1.21	JB	0.0535	5.85	1
11031	234678-HxCDF	60851-34-5	1.08	JB	0.0489	5.85	1
11031	1234678-HpCDF	67562-39-4	16.5	B	0.0460	5.85	1
11031	1234789-HpCDF	55673-89-7	1.92	JB	0.0383	5.85	1
11031	OCDF	39001-02-0	35.9	B	0.0438	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-130-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-130-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA8N-SS-0.0-0.5

LLI Sample # SW 6259079
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 09:45

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD130 SDG#: DX071-08

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 04:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401B	04/21/2011 20:48	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	U	0.128	1.17	1
11031	12378-PeCDD	40321-76-4	0.699	JB	0.111	5.83	1
11031	123478-HxCDD	39227-28-6	0.857	JB	0.0882	5.83	1
11031	123678-HxCDD	57653-85-7	2.13	JB	0.0912	5.83	1
11031	123789-HxCDD	19408-74-3	1.64	JB	0.0869	5.83	1
11031	1234678-HpCDD	35822-46-9	45.4	B	0.0913	5.83	1
11031	OCDD	3268-87-9	493	B	0.0722	11.7	1
11031	2378-TCDF	51207-31-9	28.5	B	0.953	1.17	1
11650	2378-TCDF-Conf	51207-31-9	5.78	B	0.143	1.17	1
11031	12378-PeCDF	57117-41-6	3.96	JB	0.198	5.83	1
11031	23478-PeCDF	57117-31-4	10.6	B	0.196	5.83	1
11031	123478-HxCDF	70648-26-9	4.98	JB	0.0937	5.83	1
11031	123678-HxCDF	57117-44-9	1.36	J	0.0883	5.83	1
11031	123789-HxCDF	72918-21-9	1.17	JB	0.0993	5.83	1
11031	234678-HxCDF	60851-34-5	1.40	JB	0.0872	5.83	1
11031	1234678-HpCDF	67562-39-4	10.9	B	0.0441	5.83	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0550	5.83	1
11031	OCDF	39001-02-0	21.1	B	0.0443	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-2378-TCDF-Conf	85	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259080
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 21:27	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11122002	05/10/2011 06:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.9		0.0899	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.118	5.75	1
11031	123478-HxCDD	39227-28-6	117	B	0.119	5.75	1
11031	123678-HxCDD	57653-85-7	119	B	0.119	5.75	1
11031	123789-HxCDD	19408-74-3	118	B	0.118	5.75	1
11031	1234678-HpCDD	35822-46-9	162	B	0.111	5.75	1
11031	OCDD	3268-87-9	785	B	0.0782	11.5	1
11031	2378-TCDF	51207-31-9	53.2	B	0.848	1.15	1
11031	12378-PeCDF	57117-41-6	120	B	0.168	5.75	1
11031	23478-PeCDF	57117-31-4	128	B	0.170	5.75	1
11031	123478-HxCDF	70648-26-9	123	B	0.107	5.75	1
11031	123678-HxCDF	57117-44-9	116		0.0966	5.75	1
11031	123789-HxCDF	72918-21-9	118	B	0.115	5.75	1
11031	234678-HxCDF	60851-34-5	118	B	0.0996	5.75	1
11031	1234678-HpCDF	67562-39-4	132	B	0.0652	5.75	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0857	5.75	1
11031	OCDF	39001-02-0	262	B	0.0590	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259081
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MS

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 22:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1		0.119	1.16	1
11031	12378-PeCDD	40321-76-4	120	B	0.119	5.81	1
11031	123478-HxCDD	39227-28-6	122	B	0.119	5.81	1
11031	123678-HxCDD	57653-85-7	121	B	0.115	5.81	1
11031	123789-HxCDD	19408-74-3	118	B	0.114	5.81	1
11031	1234678-HpCDD	35822-46-9	197	B	0.121	5.81	1
11031	OCDD	3268-87-9	1,220	B	0.119	11.6	1
11031	2378-TCDF	51207-31-9	51.6	B	1.05	1.16	1
11031	12378-PeCDF	57117-41-6	122	B	0.184	5.81	1
11031	23478-PeCDF	57117-31-4	126	B	0.189	5.81	1
11031	123478-HxCDF	70648-26-9	122	B	0.122	5.81	1
11031	123678-HxCDF	57117-44-9	120		0.113	5.81	1
11031	123789-HxCDF	72918-21-9	117	B	0.114	5.81	1
11031	234678-HxCDF	60851-34-5	121	B	0.0984	5.81	1
11031	1234678-HpCDF	67562-39-4	133	B	0.0718	5.81	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0882	5.81	1
11031	OCDF	39001-02-0	272	B	0.0619	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SS-0.0-0.5

LLI Sample # SW 6259082
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:20

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD133 SDG#: DX071-09MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/04/2011 23:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
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Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0234	U	0.0234	1.12	1
11031	12378-PeCDD	40321-76-4	0.343	JBQ	0.0412	5.61	1
11031	123478-HxCDD	39227-28-6	0.425	JB	0.0797	5.61	1
11031	123678-HxCDD	57653-85-7	1.70	JB	0.0776	5.61	1
11031	123789-HxCDD	19408-74-3	1.89	JB	0.0694	5.61	1
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0802	5.61	1
11031	OCDD	3268-87-9	279	B	0.0808	11.2	1
11031	2378-TCDF	51207-31-9	1.21		0.154	1.12	1
11650	2378-TCDF-Conf	51207-31-9	0.875	JB	0.0655	1.12	1
11031	12378-PeCDF	57117-41-6	1.00	JB	0.0485	5.61	1
11031	23478-PeCDF	57117-31-4	0.800	JB	0.0465	5.61	1
11031	123478-HxCDF	70648-26-9	1.88	JB	0.117	5.61	1
11031	123678-HxCDF	57117-44-9	0.608	JB	0.0854	5.61	1
11031	123789-HxCDF	72918-21-9	1.04	JB	0.0661	5.61	1
11031	234678-HxCDF	60851-34-5	0.564	JB	0.0579	5.61	1
11031	1234678-HpCDF	67562-39-4	5.58	JB	0.0482	5.61	1
11031	1234789-HpCDF	55673-89-7	0.632	JB	0.0498	5.61	1
11031	OCDF	39001-02-0	10.1	JB	0.0463	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	54	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
LLI Group # 1242329
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA8N-SS-0.0-0.5

LLI Sample # SW 6259083
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 14:05

Submitted: 04/15/2011 09:55
Reported: 05/13/2011 13:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD134 SDG#: DX071-10*

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.2-10.2 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108001	04/23/2011 08:01	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11108001	04/29/2011 06:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108001	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111162401B	Sample number(s): 6259072,6259077-6259079								
Moisture Content by 160.3					99		80-120		
Batch number: 11129162401A	Sample number(s): 6259073-6259076,6259080-6259083								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108001	Sample number(s): 6259072-6259079,6259083								
2378-TCDD	0.0130 U	0.0130	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0250 J	0.0149	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0149 J	0.0105	5.00	ng/kg	110		70-164		
123678-HxCDD	0.0308 J	0.0110	5.00	ng/kg	109		76-134		
123789-HxCDD	0.0253 J	0.0107	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.251 J	0.0186	5.00	ng/kg	107		70-140		
OCDD	0.502 J	0.0217	10.0	ng/kg	109		78-144		
2378-TCDF	0.0123 U	0.0123	1.00	ng/kg	128		75-158		
2378-TCDF-Conf	0.0304 J	0.0224	1.00	ng/kg					
12378-PeCDF	0.0222 J	0.00710	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0491 J	0.00740	5.00	ng/kg	111		68-160		
123478-HxCDF	0.0294 J	0.00930	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0156 J	0.00770	5.00	ng/kg	111		84-130		
123789-HxCDF	0.0308 J	0.0104	5.00	ng/kg	111		78-130		
234678-HxCDF	0.0256 J	0.00870	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0712 J	0.00810	5.00	ng/kg	109		82-122		
1234789-HpCDF	0.0462 J	0.0126	5.00	ng/kg	111		78-138		
OCDF	0.149 J	0.0213	10.0	ng/kg	113		63-170		
Batch number: 11122002	Sample number(s): 6259080-6259082								
2378-TCDD	0.0172 U	0.0172	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0291 J	0.0152	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0176 J	0.0135	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0563 J	0.0139	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0395 J	0.0129	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.160 J	0.0232	5.00	ng/kg	100		70-140		
OCDD	0.283 J	0.0219	10.0	ng/kg	100		78-144		
2378-TCDF	0.0138 J	0.0129	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0340 J	0.0272	1.00	ng/kg					
12378-PeCDF	0.0402 J	0.00770	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0477 J	0.00730	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0299 J	0.00990	5.00	ng/kg	100		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0587 J	0.0100	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0330 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.0552 J	0.00880	5.00	ng/kg	99		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0327 J	0.0126	5.00	ng/kg	101		78-138		
OCDF	0.0855 J	0.0225	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11111162401B	Sample number(s): 6259072,6259077-6259079 BKG: P259051								
Moisture Content by 160.3						15.5	14.6	6	20
Batch number: 11129162401A	Sample number(s): 6259073-6259076,6259080-6259083 BKG: P259054								
Moisture Content by 160.3						14.6	14.7	1	20
Batch number: 11122002	Sample number(s): 6259080-6259082 UNSPK: 6259080								
2378-TCDD	99	99	67-158	1	25				
12378-PeCDD	101	103	70-142	3	25				
123478-HxCDD	101	104	70-164	4	25				
123678-HxCDD	102	102	76-134	2	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	101	130	70-140	20	25				
OCDD	127	314*	78-144	44*	25				
2378-TCDF	107	99	75-158	3	25				
12378-PeCDF	101	101	80-134	1	25				
23478-PeCDF	102	99	68-160	2	25				
123478-HxCDF	103	101	72-134	1	25				
123678-HxCDF	100	102	84-130	3	25				
123789-HxCDF	102	100	78-130	1	25				
234678-HxCDF	102	103	70-156	2	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	103	102	78-138	0	25				
OCDF	105	108	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259072	68	68	49	60	74	73
6259073	75	74	64	76	77	72
6259074	77	69	47	61	75	79
6259075	79	75	53	68	80	78
6259076	76	72	49	65	77	74
6259077	79	70	31	43	80	79
6259078	78	62	27	38	76	75
6259079	83	80	47	59	84	85

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Surrogate Quality Control

6259083	71	67	36	48	70	69
Blank	77	71	72	83	76	73
OPR	78	68	49	71	73	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259072	56	62	46	78	68	67
6259073	80	66	58	86	76	75
6259074	61	67	59	85	72	69
6259075	70	69	61	84	75	76
6259076	67	66	59	83	75	72
6259077	44	72	64	84	76	60
6259078	40	66	53	78	74	53
6259079	59	78	70	88	82	71
6259083	53	60	52	76	69	63
Blank	90	66	62	95	77	79
OPR	86	57	52	87	78	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259072	69	71	61	45	67	68
6259073	77	76	71	64	70	78
6259074	73	76	69	62	73	77
6259075	75	78	72	66	74	78
6259076	76	76	71	65	71	78
6259077	71	79	74	70	75	78
6259078	64	78	70	65	73	77
6259079	78	82	76	71	81	82
6259083	66	71	64	59	66	72
Blank	79	78	74	71	69	80
OPR	81	81	77	74	67	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6259072						
6259073						
6259074						
6259075	68					
6259076						
6259077						
6259078	71					
6259079						
6259083	54					
Blank	73					
OPR						
Limits:	24-169					

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122002

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242329
Reported: 05/13/11 at 01:20 PM

Surrogate Quality Control

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259080	88	83	88	90	90	90
6259081	81	79	81	85	83	81
6259082	72	69	66	67	75	74
Blank	62	62	62	65	67	67
MS	81	79	81	85	83	81
MSD	72	69	66	67	75	74
OPR	68	67	70	75	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259080	93	87	83	95	85	96
6259081	90	79	76	86	82	89
6259082	73	67	65	74	71	81
Blank	71	61	58	73	65	70
MS	90	79	76	86	82	89
MSD	73	67	65	74	71	81
OPR	82	67	64	81	71	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259080	94	94	93	92	86	88
6259081	88	87	86	84	79	88
6259082	81	81	76	77	70	77
Blank	71	72	71	69	58	63
MS	88	87	86	84	79	88
MSD	81	81	76	77	70	77
OPR	76	78	76	74	63	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6259080	85
6259081	
6259082	
Blank	56
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
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13013 1242329 6259072-83

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
DUP03-SA8N-QC-041411	04.14.11	1525	SOIL	NONE	1-16 oz jar										X	X	X	X	X	X	X	X	X	
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-040-SA8N-SS-0.0-0.5	04.14.11	1000	SOIL	NONE	1 SS sleeve			X	X															
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-078-SA8N-SS-0.0-0.5	04.14.11	1110	SOIL	NONE	1 SS sleeve			X	X															
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SS-0.0-0.5	04.14.11	1630	SOIL	NONE	1 SS sleeve			X	X															
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-082-SA8N-SS-0.0-0.5	04.14.11	1535	SOIL	NONE	1 SS sleeve			X	X															
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-089-SA8N-SS-0.0-0.5	04.14.11	1610	SOIL	NONE	1 SS sleeve			X	X															
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-090-SA8N-SS-0.0-0.5	04.14.11	1645	SOIL	NONE	1 SS sleeve			X	X															
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-091-SA8N-SS-0.0-0.5	04.14.11	1450	SOIL	NONE	1 SS sleeve			X	X															
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-130-SA8N-SS-0.0-0.5	04.14.11	0945	SOIL	NONE	1 SS sleeve			X	X															
SL-133-SA8N-SS-0.0-0.5MS	04.14.11	1520	SOIL	NONE	2-16 oz jars										X	X	X	X	X	X	X	X	X	
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-133-SA8N-SS-0.0-0.5	04.14.11	1520	SOIL	NONE	1 SS sleeve			X	X															
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-134-SA8N-SS-0.0-0.5	04.14.11	1405	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) — Date/Time: 04/14/2011 / 1700

Received for Laboratory by: (Signature) — 4/15/11 955

Received by: (Signature) — Date/Time

Airbill No.(s)
8695 1367 6216; 8700 5932 3168
8700 5930 9896

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/19/2011
Group Number: 1242769
SDG: DE130
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-056-SA8N-SS-0.0-0.5 Soil	6261694
SL-057-SA8N-SS-0.0-0.5 Soil	6261695
SL-071-SA8N-SS-0.0-0.5 Soil	6261696
SL-080-SA8N-SS-0.0-0.5 Soil	6261697
SL-085-SA8N-SS-0.0-0.5 Soil	6261698
SL-086-SA8N-SS-0.0-0.5 Soil	6261699
SL-132-SA8N-SS-0.0-0.5 Soil	6261700
EB05-SA8N-SS-041811 Water	6261701
SL-032-SA5A-SB-3.0-4.0 Soil	6261702
SL-172-SA5A-SB-4.0-5.0 Soil	6261703
SL-174-SA5A-SB-2.0-3.0 Soil	6261704
SL-254-SA5A-SB-2.5-3.5 Soil	6261705
TB-041811 Water	6261706
EB13-SA5A-SB-041811 Water	6261707

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	42.7		19.2	38.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.8	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.3		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.78	1.9		1
10138	Pyrene	129-00-0	1.8	J	0.78	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	3.3		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	2.6		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.46	1.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.75	22.9		1
07914	Boron	7440-42-8	6.50		1.02	5.72		1
01650	Calcium	7440-70-2	35,500		7.01	22.9		1
01654	Iron	7439-89-6	31,600		26.9	114		5
01656	Lithium	7439-93-2	28.3		0.25	2.3		1
01657	Magnesium	7439-95-4	8,120		2.91	11.4		1
06958	Manganese	7439-96-5	429		0.0892	0.572		1
10145	Phosphorus	7723-14-0	731		0.641	11.4		1
01662	Potassium	7440-09-7	6,360		20.6	57.2		1
01667	Sodium	7440-23-5	131		42.7	114		1
07968	Strontium	7440-24-6	73.3		0.0709	0.572		1
06969	Tin	7440-31-5	2.66	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,360		0.435	1.14		1
10146	Zirconium	7440-67-7	2.59	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.231	J	0.0693	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.18		0.0924	0.462		2
06126	Barium	7440-39-3	130		0.125	0.462		2
06127	Beryllium	7440-41-7	0.702		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.279		0.0462	0.116		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	30.5		0.139	0.462		2
06132	Cobalt	7440-48-4	10.3		0.0231	0.116		2
06133	Copper	7440-50-8	16.9		0.0763	0.462		2
06135	Lead	7439-92-1	10.7		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.624		0.0578	0.116		2
06139	Nickel	7440-02-0	19.1		0.116	0.462		2
06141	Selenium	7782-49-2	0.795		0.0462	0.462		2
06142	Silver	7440-22-4	0.0468	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.315		0.0347	0.116		2
06148	Vanadium	7440-62-2	57.9		0.0254	0.116		2
06149	Zinc	7440-66-6	81.1		0.647	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0111	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.93	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 12:48	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 09:48	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/22/2011 23:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 17:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 08:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/20/2011 23:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 16:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:05	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1

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Sample Description: SL-056-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SS-0.0-0.5

LLI Sample # SW 6261694
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE130-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 12:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 12:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 01:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 14:50	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.2		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.41	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.3		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	5.0		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	25		0.45	1.3		1

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Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.49	21.8		1
07914	Boron	7440-42-8	8.34		0.971	5.45		1
01650	Calcium	7440-70-2	39,100		6.69	21.8		1
01654	Iron	7439-89-6	31,500		25.7	109		5
01656	Lithium	7439-93-2	30.7		0.24	2.2		1
01657	Magnesium	7439-95-4	8,760		2.77	10.9		1
06958	Manganese	7439-96-5	410		0.0851	0.545		1
10145	Phosphorus	7723-14-0	696		0.611	10.9		1
01662	Potassium	7440-09-7	7,080		19.6	54.5		1
01667	Sodium	7440-23-5	126		40.7	109		1
07968	Strontium	7440-24-6	82.2		0.0676	0.545		1
06969	Tin	7440-31-5	2.62	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,450		0.415	1.09		1
10146	Zirconium	7440-67-7	2.22	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0890	0.445		2
06126	Barium	7440-39-3	107		0.120	0.445		2
06127	Beryllium	7440-41-7	0.669		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.259		0.0445	0.111		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	31.1		0.133	0.445		2
06132	Cobalt	7440-48-4	10.7		0.0222	0.111		2
06133	Copper	7440-50-8	17.8		0.0734	0.445		2
06135	Lead	7439-92-1	10.0		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.449		0.0556	0.111		2
06139	Nickel	7440-02-0	19.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.376	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0356	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.352		0.0334	0.111		2
06148	Vanadium	7440-62-2	59.9		0.0245	0.111		2
06149	Zinc	7440-66-6	80.0		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.90	U	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	435		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:17	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 13:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 10:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 18:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 08:50	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 13:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:08	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SS-0.0-0.5

LLI Sample # SW 6261695
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:10

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL057 SDG#: DE130-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:41	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 13:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 13:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 02:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 15:03	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.1	J	19.2	38.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.5	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.4	J	0.78	2.0		1
10138	Fluorene	86-73-7	1.5	J	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.6	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.78	2.0		1
10138	Pyrene	129-00-0	1.3	J	0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

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Collected: 04/18/2011 08:35

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14420 Albemarle Point Place
Suite 210
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SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	2.4		0.39	2.0		1
10225	PCB-1260	11096-82-5	1.6	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	4.2		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	19		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	48		0.47	1.4		1

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SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		5.83	23.2		1
07914	Boron	7440-42-8	1.62	J	1.03	5.80		1
01650	Calcium	7440-70-2	3,450		7.11	23.2		1
01654	Iron	7439-89-6	19,400		5.46	23.2		1
01656	Lithium	7439-93-2	25.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,380		2.94	11.6		1
06958	Manganese	7439-96-5	402		0.0904	0.580		1
10145	Phosphorus	7723-14-0	644		0.649	11.6		1
01662	Potassium	7440-09-7	3,630		20.9	58.0		1
01667	Sodium	7440-23-5	82.1	J	43.2	116		1
07968	Strontium	7440-24-6	22.6		0.0719	0.580		1
06969	Tin	7440-31-5	2.79	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,110		0.441	1.16		1
10146	Zirconium	7440-67-7	0.974	U	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.111	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.32		0.0927	0.464		2
06126	Barium	7440-39-3	106		0.125	0.464		2
06127	Beryllium	7440-41-7	0.428		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.263		0.0464	0.116		2

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SL-071-SA8N-SS-0.0-0.5

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SL071 SDG#: DE130-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	14.3	0.139	0.464		2
06132	Cobalt	7440-48-4	5.44	0.0232	0.116		2
06133	Copper	7440-50-8	8.95	0.0765	0.464		2
06135	Lead	7439-92-1	12.6	0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.722	0.0580	0.116		2
06139	Nickel	7440-02-0	10.5	0.116	0.464		2
06141	Selenium	7782-49-2	0.224 J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0362 J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.269	0.0348	0.116		2
06148	Vanadium	7440-62-2	29.6	0.0255	0.116		2
06149	Zinc	7440-66-6	71.6	0.649	3.48		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0449 J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4	0.94	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23 J	0.21	0.58		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.58	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
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SL071 SDG#: DE130-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:34	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 19:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 13:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 11:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 09:15	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 23:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 14:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SS-0.0-0.5

LLI Sample # SW 6261696
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:35

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL071 SDG#: DE130-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 05:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 13:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 13:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 15:23	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 14:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	38.2	J	20.1	40.2		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.3		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.94	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	2.0	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	2.4		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.0	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	1.4	J	0.81	2.0		1
10138	Pyrene	129-00-0	1.9	J	0.81	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	8.7		0.40	2.1		1
10225	PCB-1260	11096-82-5	3.0		0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	2.8		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	12		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	31		0.48	1.4		1

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		6.04	24.0		1
07914	Boron	7440-42-8	6.98		1.07	6.01		1
01650	Calcium	7440-70-2	59,500		7.37	24.0		1
01654	Iron	7439-89-6	28,800		5.66	24.0		1
01656	Lithium	7439-93-2	26.7		0.26	2.4		1
01657	Magnesium	7439-95-4	7,770		3.05	12.0		1
06958	Manganese	7439-96-5	458		0.0937	0.601		1
10145	Phosphorus	7723-14-0	1,020		0.673	12.0		1
01662	Potassium	7440-09-7	5,910		21.6	60.1		1
01667	Sodium	7440-23-5	129		44.8	120		1
07968	Strontium	7440-24-6	105		0.0745	0.601		1
06969	Tin	7440-31-5	2.47	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,310		0.457	1.20		1
10146	Zirconium	7440-67-7	3.01	J	1.01	6.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0721	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.83		0.0961	0.481		2
06126	Barium	7440-39-3	110		0.130	0.481		2
06127	Beryllium	7440-41-7	0.616		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.316		0.0481	0.120		2

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.7		0.144	0.481		2
06132	Cobalt	7440-48-4	8.71		0.0240	0.120		2
06133	Copper	7440-50-8	16.1		0.0793	0.481		2
06135	Lead	7439-92-1	9.10		0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.672		0.0601	0.120		2
06139	Nickel	7440-02-0	17.3		0.120	0.481		2
06141	Selenium	7782-49-2	0.683		0.0481	0.481		2
06142	Silver	7440-22-4	0.0269	J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.282		0.0360	0.120		2
06148	Vanadium	7440-62-2	52.2		0.0264	0.120		2
06149	Zinc	7440-66-6	72.6		0.673	3.60		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0249	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 19:50	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 20:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 14:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 11:55	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 09:40	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 00:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 00:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 15:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1

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Sample Description: SL-080-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SS-0.0-0.5

LLI Sample # SW 6261697
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 10:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE130-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 15:29	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	252	J	190	380		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Fluoranthene	206-44-0	57	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	41	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	55	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.61	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	6.2		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.7		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	5.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		5
10225	Aroclor 5460	11126-42-4	5.8	U	5.8	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		5
10225	PCB-1254	11097-69-1	40		1.9	9.8		5
10225	PCB-1260	11096-82-5	13		2.2	9.8		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	4.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	18		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	50		0.46	1.4		1

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Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.75	22.9		1
07914	Boron	7440-42-8	2.36	J	1.02	5.72		1
01650	Calcium	7440-70-2	4,370		7.01	22.9		1
01654	Iron	7439-89-6	21,300		5.38	22.9		1
01656	Lithium	7439-93-2	22.5		0.25	2.3		1
01657	Magnesium	7439-95-4	4,580		2.90	11.4		1
06958	Manganese	7439-96-5	379		0.0892	0.572		1
10145	Phosphorus	7723-14-0	523		0.640	11.4		1
01662	Potassium	7440-09-7	4,160		20.6	57.2		1
01667	Sodium	7440-23-5	85.5	J	42.6	114		1
07968	Strontium	7440-24-6	22.5		0.0709	0.572		1
06969	Tin	7440-31-5	2.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,180		0.434	1.14		1
10146	Zirconium	7440-67-7	1.44	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.88		0.0906	0.453		2
06126	Barium	7440-39-3	102		0.122	0.453		2
06127	Beryllium	7440-41-7	0.575		0.0181	0.113		2
06128	Cadmium	7440-43-9	1.35		0.0453	0.113		2
06131	Chromium	7440-47-3	19.0		0.136	0.453		2
06132	Cobalt	7440-48-4	6.61		0.0226	0.113		2
06133	Copper	7440-50-8	12.6		0.0747	0.453		2

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Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.4		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.816		0.0566	0.113		2
06139	Nickel	7440-02-0	13.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.202	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.127		0.0136	0.113		2
06145	Thallium	7440-28-0	0.276		0.0340	0.113		2
06148	Vanadium	7440-62-2	35.3		0.0249	0.113		2
06149	Zinc	7440-66-6	67.5		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.659		0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.2		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 20:07	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/25/2011 20:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 14:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 12:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 19:51	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/26/2011 10:30	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 01:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 19:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 17:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2

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Sample Description: SL-085-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA8N-SS-0.0-0.5

LLI Sample # SW 6261698
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 08:15

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL085 SDG#: DE130-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 15:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 03:44	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 15:48	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.52	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.2	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.76	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.72	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.69	22.6		1
07914	Boron	7440-42-8	8.31		1.01	5.66		1
01650	Calcium	7440-70-2	37,300		6.93	22.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,400		26.6	113		5
01656	Lithium	7439-93-2	30.4		0.25	2.3		1
01657	Magnesium	7439-95-4	8,630		2.87	11.3		1
06958	Manganese	7439-96-5	408		0.0882	0.566		1
10145	Phosphorus	7723-14-0	700		0.633	11.3		1
01662	Potassium	7440-09-7	7,200		20.4	56.6		1
01667	Sodium	7440-23-5	118		42.2	113		1
07968	Strontium	7440-24-6	82.1		0.0701	0.566		1
06969	Tin	7440-31-5	2.52	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,390		0.430	1.13		1
10146	Zirconium	7440-67-7	2.07	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.81		0.0923	0.461		2
06126	Barium	7440-39-3	97.2		0.125	0.461		2
06127	Beryllium	7440-41-7	0.682		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.253		0.0461	0.115		2
06131	Chromium	7440-47-3	30.2		0.138	0.461		2
06132	Cobalt	7440-48-4	9.89		0.0231	0.115		2
06133	Copper	7440-50-8	17.3		0.0761	0.461		2
06135	Lead	7439-92-1	10.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.477		0.0577	0.115		2
06139	Nickel	7440-02-0	19.6		0.115	0.461		2
06141	Selenium	7782-49-2	0.323	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0278	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.312		0.0346	0.115		2
06148	Vanadium	7440-62-2	58.9		0.0254	0.115		2
06149	Zinc	7440-66-6	76.7		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	440		10.0	10.0		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:03	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 15:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:12	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 02:58	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SS-0.0-0.5

LLI Sample # SW 6261699
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:55

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE130-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 08:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 08:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 08:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 08:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 04:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 16:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.88	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.5		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.4		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.2		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	6.7		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	12		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.6		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	4.4		0.73	1.8		1
10138	Pyrene	129-00-0	9.4		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.2		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	16		0.36	1.9		1
10225	PCB-1260	11096-82-5	4.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	19		4.3	13		10
10199	EFH (C30 - C40)	n.a.	120		4.3	13		10

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.44	21.6		1
07914	Boron	7440-42-8	5.01	J	0.962	5.40		1
01650	Calcium	7440-70-2	13,700		6.63	21.6		1
01654	Iron	7439-89-6	29,500		25.5	108		5
01656	Lithium	7439-93-2	21.9		0.24	2.2		1
01657	Magnesium	7439-95-4	7,170		2.75	10.8		1
06958	Manganese	7439-96-5	455		0.0843	0.540		1
10145	Phosphorus	7723-14-0	1,080		0.605	10.8		1
01662	Potassium	7440-09-7	5,620		19.5	54.0		1
01667	Sodium	7440-23-5	172		40.3	108		1
07968	Strontium	7440-24-6	39.0		0.0670	0.540		1
06969	Tin	7440-31-5	2.58	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,480		0.411	1.08		1
10146	Zirconium	7440-67-7	3.97	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.255		0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0848	0.424		2
06126	Barium	7440-39-3	213		0.286	1.06		5
06127	Beryllium	7440-41-7	0.677		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.244		0.0424	0.106		2
06131	Chromium	7440-47-3	24.8		0.127	0.424		2
06132	Cobalt	7440-48-4	9.31		0.0212	0.106		2
06133	Copper	7440-50-8	16.2		0.0700	0.424		2

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.70		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.678		0.0530	0.106		2
06139	Nickel	7440-02-0	15.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.397	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0462	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.311		0.0318	0.106		2
06148	Vanadium	7440-62-2	48.2		0.0233	0.106		2
06149	Zinc	7440-66-6	99.2		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0896	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	430		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11110SLG026	04/28/2011 20:40	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/27/2011 22:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11110SLG026	04/21/2011 09:30	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 14:45	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111100005A	04/23/2011 00:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111100005A	04/20/2011 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110016A	04/27/2011 12:58	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111090025A	04/21/2011 01:39	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/21/2011 20:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111100030A	04/23/2011 18:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111110016A	04/22/2011 04:30	David V Hershey Jr	1
10303	Terphenyls soil prep	SW-846 3550B	1	111100030A	04/21/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111090025A	04/19/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 08:15	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 15:28	Choon Y Tian	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA8N-SS-0.0-0.5

LLI Sample # SW 6261700
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 14:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL132 SDG#: DE130-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 14:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11119621201A	04/29/2011 14:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 04:50	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:19	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11114102201B	04/25/2011 15:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11114102201B	04/24/2011 22:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103A	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403A	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB05-SA8N-SS-041811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.565	J	0.484	0.967		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB05-SA8N-SS-041811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.019	U	0.019	0.096		1
10137	Acenaphthylene	208-96-8	0.019	U	0.019	0.096		1
10137	Anthracene	120-12-7	0.019	U	0.019	0.096		1
10137	Benzo(a)anthracene	56-55-3	0.019	U	0.019	0.096		1
10137	Benzo(a)pyrene	50-32-8	0.019	U	0.019	0.096		1
10137	Benzo(b)fluoranthene	205-99-2	0.019	U	0.019	0.096		1
10137	Benzo(g,h,i)perylene	191-24-2	0.019	U	0.019	0.096		1
10137	Benzo(k)fluoranthene	207-08-9	0.019	U	0.019	0.096		1
10137	Butylbenzylphthalate	85-68-7	0.33	J	0.096	1.9		1
10137	Di-n-butylphthalate	84-74-2	0.37	J	0.096	1.9		1
10137	Chrysene	218-01-9	0.019	U	0.019	0.096		1
10137	Dibenz(a,h)anthracene	53-70-3	0.019	U	0.019	0.096		1
10137	Diethylphthalate	84-66-2	0.096	U	0.096	1.9		1
10137	Dimethylphthalate	131-11-3	0.096	U	0.096	1.9		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.72	J	0.096	1.9		1
10137	Fluoranthene	206-44-0	0.019	U	0.019	0.096		1
10137	Fluorene	86-73-7	0.019	U	0.019	0.096		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.019	U	0.019	0.096		1
10137	1-Methylnaphthalene	90-12-0	0.019	U	0.019	0.096		1
10137	2-Methylnaphthalene	91-57-6	0.019	U	0.019	0.096		1
10137	Naphthalene	91-20-3	0.058	U	0.058	0.096		1
10137	N-Nitrosodimethylamine	62-75-9	0.019	U	0.019	0.096		1
10137	Di-n-octylphthalate	117-84-0	0.52	J	0.096	1.9		1
10137	Phenanthrene	85-01-8	0.019	U	0.019	0.096		1
10137	Pyrene	129-00-0	0.019	U	0.019	0.096		1
	Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB05-SA8N-SS-041811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

Due to instrument failures, the sample was not able to be analyzed immediately after the preparation. Tetryl as a compound is very unstable, therefore the LCS/LCSD recoveries for tetryl are outside the QC limits. The client was notified and the data is reported.

HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1

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Sample Description: EB05-SA8N-SS-041811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0221	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0949	J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB05-SA8N-SS-041811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/l	mg/l	mg/l	mg/l	
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		mg/l	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		mg/l	mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		ug/l	ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		ug/l	ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		mg/l	mg/l	mg/l	mg/l	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		Std. Units	Std. Units	Std. Units	Std. Units	
00200	18b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 14:29	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 13:36	Matthew S Woods	1

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Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 02:08	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111090002A	05/18/2011 09:28	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 20:39	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:16	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111090002A	04/19/2011 16:00	Wanda F Oswald	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 08:30	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/27/2011 22:02	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111100002A	04/20/2011 18:59	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 01:34	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:31	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:35	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:49	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:49	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:49	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1

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Analysis Report

Sample Description: **EB05-SA8N-SS-041811 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SS-041811

LLI Sample # WW 6261701
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:00

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE130-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:49	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:08	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 08:20	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11109196601B	04/20/2011 08:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:12	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11108196401B	04/19/2011 11:02	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11109117101B	04/20/2011 14:05	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11109117101B	04/19/2011 22:45	James S Mathiot	1
00200	18b pH by 9040B	SW-846 9040B	1	11110020002A	04/20/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.89
06192	Methylene Chloride	75-09-2	5.8		0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,900		5.77	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.74		1
01650	Calcium	7440-70-2	2,080		7.03	22.9		1
01654	Iron	7439-89-6	22,300		5.40	22.9		1
01656	Lithium	7439-93-2	20.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,110		2.91	11.5		1
06958	Manganese	7439-96-5	377		0.0895	0.574		1
10145	Phosphorus	7723-14-0	330		0.642	11.5		1
01662	Potassium	7440-09-7	2,700		20.7	57.4		1
01667	Sodium	7440-23-5	86.0	J	42.8	115		1
07968	Strontium	7440-24-6	16.9		0.0711	0.574		1
06969	Tin	7440-31-5	3.04	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,260		0.436	1.15		1
10146	Zirconium	7440-67-7	1.18	J	0.964	5.74		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.121	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.79		0.0909	0.454		2
06126	Barium	7440-39-3	77.8		0.123	0.454		2
06127	Beryllium	7440-41-7	0.637		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0454	U	0.0454	0.114		2
06131	Chromium	7440-47-3	12.7		0.136	0.454		2
06132	Cobalt	7440-48-4	5.89		0.0227	0.114		2
06133	Copper	7440-50-8	6.81		0.0750	0.454		2
06135	Lead	7439-92-1	5.11		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.539		0.0568	0.114		2

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Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	8.94	0.114	0.454		2
06141	Selenium	7782-49-2	0.217 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0243 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.249	0.0341	0.114		2
06148	Vanadium	7440-62-2	27.7	0.0250	0.114		2
06149	Zinc	7440-66-6	51.6	0.636	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0057 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93 U	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	373	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 17:22	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 16:35	Sara E Johnson	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 10:56	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 02:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 20:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:04	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5A-SB-3.0-4.0

LLI Sample # SW 6261702
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 09:14

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL032 SDG#: DE130-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:12	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:32	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.88
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.88
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.88
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.88
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.88
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.88
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.88
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.88
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.88
06192	Methylene Chloride	75-09-2	0.65	J	0.25	4.2		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.88
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,700		5.93	23.6		1
07914	Boron	7440-42-8	1.05	U	1.05	5.89		1
01650	Calcium	7440-70-2	2,740		7.22	23.6		1
01654	Iron	7439-89-6	25,500		5.55	23.6		1
01656	Lithium	7439-93-2	33.4		0.26	2.4		1
01657	Magnesium	7439-95-4	5,840		2.99	11.8		1
06958	Manganese	7439-96-5	272		0.0919	0.589		1
10145	Phosphorus	7723-14-0	395		0.660	11.8		1
01662	Potassium	7440-09-7	2,600		21.2	58.9		1
01667	Sodium	7440-23-5	91.8	J	44.0	118		1
07968	Strontium	7440-24-6	17.8		0.0731	0.589		1
06969	Tin	7440-31-5	2.84	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,410		0.448	1.18		1
10146	Zirconium	7440-67-7	1.50	J	0.990	5.89		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0766	J	0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0934	0.467		2
06126	Barium	7440-39-3	72.7		0.126	0.467		2
06127	Beryllium	7440-41-7	0.624		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0467	U	0.0467	0.117		2
06131	Chromium	7440-47-3	19.4		0.140	0.467		2
06132	Cobalt	7440-48-4	5.02		0.0233	0.117		2
06133	Copper	7440-50-8	8.22		0.0770	0.467		2
06135	Lead	7439-92-1	5.21		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.394		0.0583	0.117		2

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Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	12.1		0.117	0.467		2
06141	Selenium		7782-49-2	0.112	J	0.0467	0.467		2
06142	Silver		7440-22-4	0.0296	J	0.0140	0.117		2
06145	Thallium		7440-28-0	0.277		0.0350	0.117		2
06148	Vanadium		7440-62-2	37.3		0.0257	0.117		2
06149	Zinc		7440-66-6	47.2		0.653	3.50		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0179	J	0.0032	0.113		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.1		0.96	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.8	U	10.8	36.1		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.24	U	0.24	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	426		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.65		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-172-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 17:44	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 16:55	Sara E Johnson	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 11:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 02:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 21:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:07	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5A-SB-4.0-5.0

LLI Sample # SW 6261703
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL172 SDG#: DE130-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:34	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.9
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.9
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.9
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.9
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.9
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.9
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.9
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.0		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.9

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Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,100		5.49	21.8		1
07914	Boron	7440-42-8	0.971	U	0.971	5.45		1
01650	Calcium	7440-70-2	3,710		6.68	21.8		1
01654	Iron	7439-89-6	27,900		5.14	21.8		1
01656	Lithium	7439-93-2	28.9		0.24	2.2		1
01657	Magnesium	7439-95-4	7,270		2.77	10.9		1
06958	Manganese	7439-96-5	268		0.0851	0.545		1
10145	Phosphorus	7723-14-0	485		0.611	10.9		1
01662	Potassium	7440-09-7	3,480		19.6	54.5		1
01667	Sodium	7440-23-5	122		40.7	109		1
07968	Strontium	7440-24-6	22.6		0.0676	0.545		1
06969	Tin	7440-31-5	2.93	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,610		0.414	1.09		1
10146	Zirconium	7440-67-7	0.916	U	0.916	5.45		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.157	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.55		0.0872	0.436		2
06126	Barium	7440-39-3	119		0.118	0.436		2
06127	Beryllium	7440-41-7	0.901		0.0436	0.273		5
06128	Cadmium	7440-43-9	0.0436	U	0.0436	0.109		2
06131	Chromium	7440-47-3	25.9		0.131	0.436		2
06132	Cobalt	7440-48-4	7.53		0.0218	0.109		2
06133	Copper	7440-50-8	12.8		0.0720	0.436		2
06135	Lead	7439-92-1	7.37		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.460		0.0545	0.109		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	14.4	0.109	0.436		2
06141	Selenium	7782-49-2	0.178 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0167 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.358	0.0327	0.109		2
06148	Vanadium	7440-62-2	45.2	0.0240	0.109		2
06149	Zinc	7440-66-6	75.7	0.611	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0119 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89 U	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	441	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-174-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:06	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 17:15	Sara E Johnson	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:34	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:31	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 11:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 22:38	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 10:00	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-174-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5A-SB-2.0-3.0

LLI Sample # SW 6261704
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 15:05

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL174 SDG#: DE130-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201A	04/29/2011 15:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201A	05/06/2011 05:56	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11116243201A	05/02/2011 16:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201A	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201A	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	0.47	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.4	U	4.4	13		19.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,000		5.50	21.9		1
07914	Boron	7440-42-8	0.973	U	0.973	5.46		1
01650	Calcium	7440-70-2	2,500		6.70	21.9		1
01654	Iron	7439-89-6	24,900		5.15	21.9		1
01656	Lithium	7439-93-2	26.1		0.24	2.2		1
01657	Magnesium	7439-95-4	4,610		2.78	10.9		1
06958	Manganese	7439-96-5	172		0.0853	0.546		1
10145	Phosphorus	7723-14-0	163		0.612	10.9		1
01662	Potassium	7440-09-7	1,230		19.7	54.6		1
01667	Sodium	7440-23-5	125		40.8	109		1
07968	Strontium	7440-24-6	18.9		0.0678	0.546		1
06969	Tin	7440-31-5	2.99	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,210		0.415	1.09		1
10146	Zirconium	7440-67-7	1.17	J	0.918	5.46		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.128	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.10		0.0866	0.433		2
06126	Barium	7440-39-3	58.1		0.117	0.433		2
06127	Beryllium	7440-41-7	0.895		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0433	U	0.0433	0.108		2
06131	Chromium	7440-47-3	20.1		0.130	0.433		2
06132	Cobalt	7440-48-4	3.77		0.0216	0.108		2
06133	Copper	7440-50-8	5.48		0.0714	0.433		2
06135	Lead	7439-92-1	5.67		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.408		0.0541	0.108		2

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	7.55	0.108	0.433		2
06141	Selenium		7782-49-2	0.143 J	0.0433	0.433		2
06142	Silver		7440-22-4	0.0348 J	0.0130	0.108		2
06145	Thallium		7440-28-0	0.172	0.0325	0.108		2
06148	Vanadium		7440-62-2	39.9	0.0238	0.108		2
06149	Zinc		7440-66-6	34.6	0.606	3.25		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0143 J	0.0031	0.108		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.9	0.89	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0 U	10.0	33.4		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.5	0.22	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	460	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.36	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-254-SA5A-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:29	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 17:35	Sara E Johnson	19.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110924154	04/19/2011 17:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110924154	04/19/2011 17:44	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110924154	04/19/2011 17:36	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11112SLA026	04/27/2011 12:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11116SLA026	04/28/2011 03:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11116SLA026	04/26/2011 16:45	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11112SLA026	04/22/2011 17:05	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111120007A	04/26/2011 22:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111120007A	04/23/2011 08:05	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111165708001	04/28/2011 03:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026001D	04/27/2011 09:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026001C	04/27/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026001B	04/27/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026001A	04/27/2011 09:20	Choon Y Tian	2

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Analysis Report

Sample Description: SL-254-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SB-2.5-3.5

LLI Sample # SW 6261705
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 12:45

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL254 SDG#: DE130-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111165711001	04/27/2011 06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708001	04/26/2011 20:56	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026001	04/26/2011 21:06	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711001	04/27/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11119621201B	04/29/2011 15:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 07:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11116243201A	05/02/2011 17:15	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11119621201B	04/29/2011 09:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11116243201A	04/26/2011 19:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: TB-041811 Water
SSFL Area IV Collocated Soil Sampling
TB-041811

LLI Sample # WW 6261706
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB418 SDG#: DE130-13TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-041811 Water
SSFL Area IV Collocated Soil Sampling
TB-041811

LLI Sample # WW 6261706
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB418 SDG#: DE130-13TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011 13:17	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011 10:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011 10:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011 13:17	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11116B20A	04/26/2011 23:39	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11116B20A	04/26/2011 23:39	Laura M Krieger	1

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Analysis Report

Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

LLI Sample # WW 6261707
LLI Group # 1242769
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2011 13:30

Submitted: 04/19/2011 09:50
Reported: 05/26/2011 14:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.32	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.050	U	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.30	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1

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Account # 13013

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EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.031	J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.27	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.097	U	0.097	0.48		1
10227	Aroclor 5442	12642-23-8	0.097	U	0.097	0.48		1
10227	Aroclor 5460	11126-42-4	0.097	U	0.097	0.48		1
10227	PCB-1016	12674-11-2	0.097	U	0.097	0.48		1
10227	PCB-1221	11104-28-2	0.097	U	0.097	0.48		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.097	U	0.097	0.48		1
10227	PCB-1248	12672-29-6	0.097	U	0.097	0.48		1
10227	PCB-1254	11097-69-1	0.097	U	0.097	0.48		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.48		1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0151	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1

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EB-13 SDG#: DE130-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011 13:38	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011 10:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011 10:45	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011 13:38	Nicholas R Rossi	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 14:00	Matthew S Woods	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 02:40	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB13-SA5A-SB-041811 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5A-SB-041811

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EB-13 SDG#: DE130-14EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:35	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:34	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:38	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:52	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:52	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:52	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:52	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:09	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 09:02	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:35	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11108196401B	04/19/2011 11:15	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11112020001A	04/22/2011 20:30	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6261702-6261705									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111101AA	Sample number(s): 6261706-6261707									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	120	80-123	4	30
Batch number: E111102AA	Sample number(s): 6261702-6261705									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	97	109	70-130	11	30
Batch number: Y111121AA	Sample number(s): 6261706-6261707									
Acetone	6	U	6.	20	ug/l	119	118	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	113	111	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	109	106	80-120	3	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	102	100	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	108	106	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	92	92	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	126*	122	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	88	86	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	113	111	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	92	91	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	84	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	102	98	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	95	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	128	126	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	95	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	89	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	93	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	101	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	89	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	109	104	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	120	118	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	106	106	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	104	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	94	92	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Styrene	1	U	1.	5	ug/l	94	92	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	86	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	105	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	92	90	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	103	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	96	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	100	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	108	103	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	130*	125	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	97	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	99	97	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	86	84	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
Batch number: 11110SLG026	Sample number(s): 6261694-6261698,6261700									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	74		70-130		
Batch number: 11110WAE026	Sample number(s): 6261701,6261707									
Acenaphthene	0.010	U	0.010	0.050	ug/l	103	104	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	99	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	101	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	100	102	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	115	114	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	99	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	84	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	99	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	78	77	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	65	61	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	116	121	57-154	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	101	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	103	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	101	101	69-124	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	95	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	64	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	115	126	57-145	9	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	106	69-118	2	30
Batch number: 11110WAF026	Sample number(s): 6261701									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	60*	77	70-130	25	30
Batch number: 11112SLA026	Sample number(s): 6261694-6261700,6261702-6261705									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	62		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	58		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	102		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	107		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	104		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	59		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	75		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	89		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	71		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	100		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	81		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11112WAJ026	Sample number(s): 6261701,6261707									
Aniline	1	U	1.	5	ug/l	80	77	49-101	3	30
Benzidine	20	U	20.	60	ug/l	84	79	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	25	33	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	79	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	93	82-117	1	30
Carbazole	1	U	1.	5	ug/l	100	102	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	92	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	77	73	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	99	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	99	97	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	85	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	95	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	74	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	74	67	50-119	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	71	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	72	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	98	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	98	98	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	106	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	96	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	66	59	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	58	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	63	55	52-113	13	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	81	81	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	84	85	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	101	98	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	99	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	79	79	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	100	100	75-109	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	98	98	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	51	52	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	92	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	102	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	84	53-110	1	30
Phenol	1	U	1.	5	ug/l	39	41	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	79	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	81-113	1	30
Batch number: 11116SLA026	Sample number(s): 6261694-6261700,6261702-6261705									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	94		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	117		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	79		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	114		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	122		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11116B20A	Sample number(s): 6261706									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111090002A	Sample number(s): 6261701									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	97	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	87	87	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	97	98	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	94	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	87	91	65-125	4	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	88	88	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	83	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	92	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	96	94	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	108	108	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	84	87	70-125	4	30
Tetryl	0.40	U	0.40	0.60	ug/l	50*	56*	72-141	11	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	69	72	53-129	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	95	76-109	1	30
Batch number: 111160004A	Sample number(s): 6261694-6261698,6261700									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111100005A	Sample number(s): 6261694-6261698,6261700									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	94		80-126		
Batch number: 111110003A	Sample number(s): 6261701									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111110024A	Sample number(s): 6261701,6261707									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	96*	35-84	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	90	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	114	112	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111120007A	Sample number(s): 6261694-6261700,6261702-6261705									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	99	101	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	91		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111100043A	Sample number(s): 6261701									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	96	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	101	104	60-120	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	100	60-120	26	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	70	60-120	3	30
Batch number: 111110016A	Sample number(s): 6261694-6261698,6261700									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	111		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	106		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		66-113		
Batch number: 111090025A	Sample number(s): 6261694-6261698,6261700									
Ethanol	100 U		100.	500	ug/kg	92		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 J		100.	500	ug/kg	93		68-129		
Batch number: 111100002A	Sample number(s): 6261701									
Diethylene glycol	10	U	10.	100	mg/l	105	110	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	95	100	80-124	5	20
Propylene glycol	10	U	10.	100	mg/l	95	95	80-120	0	20
Batch number: 111100003A	Sample number(s): 6261694-6261698,6261700									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111160038A	Sample number(s): 6261701									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	104		75-125		
Methanol	200 U		200.	1,000	ug/l	108		71-140		
Batch number: 111100030A	Sample number(s): 6261694-6261698,6261700									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111100042A	Sample number(s): 6261701									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	88	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	86	89	75-125	4	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	84	87	75-125	3	20
Batch number: 111095713004	Sample number(s): 6261701,6261707									
Mercury	0.000046 U		0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111161026001A	Sample number(s): 6261694-6261700,6261702-6261705									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0600 U	0.0600	0.200	mg/kg	121		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	103		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	104		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	104		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0532 J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	99		81-112		
Batch number: 111161026001B	Sample number(s): 6261694-6261700,6261702-6261705								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111161026001C	Sample number(s): 6261694-6261700,6261702-6261705								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 111161026001D	Sample number(s): 6261694-6261700,6261702-6261705								
Barium	0.108 U	0.108	0.400	mg/kg	104		81-111		
Batch number: 111165708001	Sample number(s): 6261694-6261700,6261702-6261705								
Aluminum	5.03 U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	99		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.26 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.48 J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111165711001	Sample number(s): 6261694-6261700,6261702-6261705								
Mercury	0.0028 U	0.0028	0.0973	mg/kg	99		88-123		
Batch number: 111171848001	Sample number(s): 6261701,6261707								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	98	90-112	2	20
Boron	0.0156 J	0.0138	0.0500	mg/l	100	98	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	106	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	108	106	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	104	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	105	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	103	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	103	80-120	1	20

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111176050001A	Sample number(s): 6261701,6261707								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	101	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	96	99	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	103	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	100	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	109	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	102	87-113	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	105	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	95	103	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	105	90-113	6	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	98	105	90-115	6	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	90	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	107	89-116	11	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	106	90-116	7	20
Batch number: 111176050001B	Sample number(s): 6261701,6261707								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	103	85-114	0	20
Batch number: 111176050001C	Sample number(s): 6261701,6261707								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	105	89-115	6	20
Batch number: 111176050001D	Sample number(s): 6261701,6261707								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 11108196401B	Sample number(s): 6261701,6261707								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104	103	90-110	1	20
Batch number: 11109117101B	Sample number(s): 6261701								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	98	100	90-110	2	20
Batch number: 11109196601B	Sample number(s): 6261701,6261707								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	94	94	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	95	92	90-110	3	20
Batch number: 11114102201B	Sample number(s): 6261694-6261698,6261700								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	106		80-120		
Batch number: 11115196701A	Sample number(s): 6261701,6261707								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11116243201A	Sample number(s): 6261694-6261700,6261702-6261705								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11119621201A	Sample number(s): 6261694-6261700,6261702-6261704								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11119621201B	Sample number(s): 6261705								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11124495201A	Sample number(s): 6261694-6261700,6261702-6261704								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11124495201B	Sample number(s): 6261705								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11110020002A	Sample number(s): 6261701								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11111039403A	Sample number(s): 6261694-6261700								
18a pH by 9045C					100		95-105		
Batch number: 11111039403B	Sample number(s): 6261702-6261705								
18a pH by 9045C					100		95-105		
Batch number: 11111182103A	Sample number(s): 6261694-6261700								
32a OR Potential					99		98-102		
Batch number: 11111182103B	Sample number(s): 6261702-6261705								
32a OR Potential					99		98-102		
Batch number: 11112020001A	Sample number(s): 6261707								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11119162401A	Sample number(s): 6261699,6261702-6261705								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401A	Sample number(s): 6261694-6261698,6261700								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6261702-6261705 UNSPK: P264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				

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Quality Control Summary

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Reported: 05/26/11 at 02:16 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				
Batch number: 11110SLG026	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
N-Nitrosodimethylamine	0*	0*	70-130	0	30				
Batch number: 11112SLA026	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P259085								
Aniline	77	82	35-95	6	30				
Benzidine	14*	24*	35-141	53*	30				
Benzoic acid	117	107	10-173	9	30				
Benzyl alcohol	97	100	67-115	3	30				
4-Bromophenyl-phenylether	89	84	67-129	6	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	96	95	64-120	1	30				
4-Chloro-3-methylphenol	103	97	76-110	6	30				
4-Chloroaniline	60	77	23-95	25	30				
bis(2-Chloroethoxy)methane	89	91	75-104	3	30				
bis(2-Chloroethyl)ether	96	95	60-116	0	30				
bis(2-Chloroisopropyl)ether	85	85	55-142	1	30				
2-Chloronaphthalene	66	87	50-141	28	30				
2-Chlorophenol	99	98	73-121	1	30				
4-Chlorophenyl-phenylether	93	89	80-109	4	30				
Dibenzofuran	94	91	71-112	3	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	82	83	63-109	1	30				
1,4-Dichlorobenzene	85	86	70-100	1	30				
3,3'-Dichlorobenzidine	49	52	16-119	6	30				
2,4-Dichlorophenol	93	93	78-117	0	30				
2,4-Dimethylphenol	94	93	78-110	0	30				
3,5-Dimethylphenol	102	103	70-130	1	30				
4,6-Dinitro-2-methylphenol	81	72	24-116	11	30				
2,4-Dinitrophenol	71	50	20-143	35*	30				
2,4-Dinitrotoluene	99	101	73-113	3	30				
2,6-Dinitrotoluene	100	96	69-123	4	30				
1,2-Diphenylhydrazine	91	90	71-129	1	30				
bis(2-Ethylhexyl)phthalate	107	99	63-122	7	30				
Fluoranthene	95	93	73-112	2	30				
Hexachlorobenzene	88	88	77-114	0	30				
Hexachlorobutadiene	79	77	62-120	2	30				
Hexachlorocyclopentadiene	45	56	10-153	22	30				
Hexachloroethane	76	78	57-109	3	30				
Isophorone	92	93	73-102	1	30				
2-Methylphenol	98	99	75-111	1	30				
4-Methylphenol	98	96	71-111	2	30				
2-Nitroaniline	110	105	67-125	4	30				
3-Nitroaniline	100	95	59-122	5	30				
4-Nitroaniline	80	83	52-112	3	30				
Nitrobenzene	93	92	72-106	1	30				
2-Nitrophenol	90	99	74-115	10	30				
4-Nitrophenol	88	81	54-113	8	30				
N-Nitroso-di-n-propylamine	90	93	60-116	3	30				
N-Nitrosodiphenylamine	93	91	86-145	2	30				
Pentachlorophenol	83	79	28-127	5	30				
Phenanthrene	91	90	65-125	1	30				
Phenol	99	102	58-126	3	30				
Pyrene	100	98	74-126	3	30				
1,2,4-Trichlorobenzene	88	84	72-115	4	30				
2,4,5-Trichlorophenol	92	96	78-109	4	30				
2,4,6-Trichlorophenol	92	87	77-115	6	30				
Batch number: 11116SLA026	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845								
Acenaphthene	84	87	63-105	3	30				
Acenaphthylene	84	89	67-114	6	30				
Anthracene	88	93	60-122	6	30				
Benzo(a)anthracene	92	95	59-128	3	30				
Benzo(a)pyrene	102	108	45-138	6	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	107	116	43-155	8	30				
Benzo(g,h,i)perylene	116	115	33-141	2	30				
Benzo(k)fluoranthene	109	117	42-144	7	30				
Butylbenzylphthalate	99	102	57-173	2	30				
Di-n-butylphthalate	92	95	65-148	3	30				
Chrysene	93	98	48-134	5	30				
Dibenz(a,h)anthracene	111	102	22-133	8	30				
Diethylphthalate	78	80	70-136	2	30				
Dimethylphthalate	94	97	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	108	112	39-167	3	30				
Fluoranthene	90	94	26-166	5	30				
Fluorene	90	93	66-122	3	30				
Indeno(1,2,3-cd)pyrene	114	108	21-143	6	30				
1-Methylnaphthalene	86	91	72-123	5	30				
2-Methylnaphthalene	76	81	64-103	6	30				
Naphthalene	82	88	61-102	7	30				
N-Nitrosodimethylamine	91	93	48-113	3	30				
Di-n-octylphthalate	116	127	40-192	9	30				
Phenanthrene	91	94	12-165	3	30				
Pyrene	96	100	15-153	4	30				
Batch number: 111160004A	Sample number(s): 6261694-6261698,6261700 UNSPK: P262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111100005A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
25a Formaldehyde 8315A	94	89	80-120	5	50				
Batch number: 111120007A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: 6261694								
PCB-1016	98	92	29-146	6	50				
PCB-1260	121	115	39-149	5	50				
Batch number: 111110016A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
EFH (C12-C14)	124*	169*	49-123	30*	20				
EFH (C15-C20)	-63 (2)	-59 (2)	49-123	1	20				
EFH (C21-C30)	-161 (2)	1080 (2)	49-123	55*	20				
EFH (C30 - C40)	-738 (2)	1327 (2)	49-123	42*	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C8-C11)	88	95	49-123	7	20				
Batch number: 111090025A	Sample number(s): 6261694-6261698,6261700 UNSPK: 6261697								
Ethanol	63	61	48-130	3	20				
Isopropanol	66	66	12-149	0	20				
Methanol	53	53	43-138	0	20				
Batch number: 111100003A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111160038A	Sample number(s): 6261701 UNSPK: P262150								
Ethanol	96	100	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	96	96	52-159	0	20				
Batch number: 111100030A	Sample number(s): 6261694-6261698,6261700 UNSPK: P259054								
m-Terphenyl	85	83	75-125	2	20				
o-Terphenyl	92	88	75-125	4	20				
p-Terphenyl	85	86	75-125	1	20				
Batch number: 111161026001A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Antimony	51*	41*	75-125	16	20	0.171 J	0.116 J	38* (1)	20
Arsenic	107	68*	75-125	14	20	3.89	3.34	15	20
Beryllium	100	95	75-125	3	20	0.628	0.619	1	20
Cadmium	110	109	75-125	1	20	0.0385 U	0.0448 J	200* (1)	20
Chromium	101	102	75-125	1	20	15.9	16.2	2	20
Cobalt	107	101	75-125	5	20	5.67	6.01	6	20
Copper	105	105	75-125	0	20	6.43	6.73	5	20
Lead	118	105	75-125	5	20	4.72	4.64	2	20
Nickel	118	102	75-125	7	20	11.0	11.4	4	20
Silver	105	101	75-125	4	20	0.0327 J	0.0318 J	3 (1)	20
Thallium	113	118	75-125	3	20	0.232	0.230	1 (1)	20
Vanadium	130*	96	75-125	8	20	31.8	32.3	1	20
Zinc	117 (2)	77 (2)	75-125	7	20	45.0	45.4	1	20
Batch number: 111161026001B	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Selenium	99	97	75-125	2	20	0.111 J	0.0731 J	41* (1)	20
Batch number: 111161026001C	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Molybdenum	102	98	75-125	4	20	0.557	0.557	0	20
Batch number: 111161026001D	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Barium	166 (2)	95 (2)	75-125	6	20	96.6	94.4	2	20
Batch number: 111165708001	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845								
Aluminum	1832 (2)	2092 (2)	75-125	3	20	16,900	17,500	3	20
Boron	100	100	84-115	1	20	1.71 J	1.21 J	34* (1)	20
Calcium	132 (2)	143 (2)	75-125	2	20	1,800	1,840	2	20
Iron	1186 (2)	1510 (2)	75-125	2	20	17,700	18,300	3	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Lithium	103	104	82-114	2	20	21.3		21.9		3	20
Magnesium	218 (2)	241 (2)	75-125	1	20	3,640		3,740		3	20
Manganese	171 (2)	189 (2)	75-125	3	20	270		291		7	20
Phosphorus	97	98	75-125	1	20	208		205		1	20
Potassium	131*	139*	75-125	3	20	2,110		2,080		2	20
Sodium	100	99	75-125	0	20	103		107		3 (1)	20
Strontium	98	99	75-115	1	20	18.9		19.4		3	20
Tin	88	88	80-110	1	20	2.30	J	2.30	J	0 (1)	20
Titanium	261 (2)	292 (2)	75-125	3	20	991		1,030		4	20
Zirconium	98	99	75-125	2	20	1.51	J	2.94	J	64* (1)	20
Batch number: 111165711001	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P264845 BKG: P264845										
Mercury	88	88	65-135	3	20	0.0175	J	0.0059	J	99* (1)	20
Batch number: 11114102201B	Sample number(s): 6261694-6261698,6261700 UNSPK: 6261700 BKG: 6261700										
17a Cyanide by 9012B	108		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11116243201A	Sample number(s): 6261694-6261700,6261702-6261705 UNSPK: P259085 BKG: P259085										
3a Cr VI by EPA 7199	96		75-125			0.48	J	0.78	J	48* (1)	20
Batch number: 11119621201A	Sample number(s): 6261694-6261700,6261702-6261704 UNSPK: 6261694 BKG: 6261694										
11a Anions by 300.0 - Fluoride	75*		80-120			1.8		1.7		5 (1)	20
11a Anions by 300.0 - Nitrate	88		80-120			3.1		2.8		9 (1)	20
Batch number: 11119621201B	Sample number(s): 6261705 UNSPK: 6261705 BKG: 6261705										
11a Anions by 300.0 - Fluoride	36*		80-120			1.7		1.6		6 (1)	20
Batch number: 11124495201A	Sample number(s): 6261694-6261700,6261702-6261704 UNSPK: 6261694 BKG: 6261694										
7a Perchlorate EPA 314.0	102		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11124495201B	Sample number(s): 6261705 UNSPK: P264819 BKG: P264819										
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11111039403A	Sample number(s): 6261694-6261700 BKG: P260136										
18a pH by 9045C						6.63		6.60		0	1
Batch number: 11111039403B	Sample number(s): 6261702-6261705 BKG: 6261702										
18a pH by 9045C						6.16		6.19		0	1
Batch number: 11111182103A	Sample number(s): 6261694-6261700 BKG: P260136										
32a OR Potential						349		350		0	6
Batch number: 11111182103B	Sample number(s): 6261702-6261705 BKG: 6261702										
32a OR Potential						373		379		1	6
Batch number: 11119162401A	Sample number(s): 6261699,6261702-6261705 BKG: P262838										
Moisture Content by 160.3						14.0		14.0		0	20
Batch number: 11124162401A	Sample number(s): 6261694-6261698,6261700 BKG: 6261697										
Moisture Content by 160.3						17.6		20.0		13	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6261702	99	98	101	88
6261703	98	96	100	89
6261704	99	99	100	89
6261705	99	99	100	88
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99
MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111101AA

	Toluene-d8
6261706	100
6261707	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111102AA

	Toluene-d8
6261702	97
6261703	97
6261704	97
6261705	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6261706	111	101	98	96
6261707	112	100	97	98
Blank	109	102	99	98
LCS	114	104	97	99
LCSD	112	102	97	99
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11110SLG026

	N-Nitrosodimethylamine-d6
6261694	124
6261695	90
6261696	150
6261697	106
6261698	98
6261700	89
Blank	68
LCS	61
MS	89
MSD	92
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11110WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261701	103	91	103
6261707	108	93	105
Blank	95	94	106
LCS	100	94	97
LCSD	98	92	98
Limits:	64-147	68-132	53-129

Analysis Name: 15b NDMA by 1625C
Batch number: 11110WAF026

	N-Nitrosodimethylamine-d6
6261701	171*
Blank	82
LCS	141
LCSD	97
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11112SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261694	96	94	108	81	84	91
6261695	90	85	102	83	78	85
6261696	103	100	110	85	89	88
6261697	90	88	103	83	84	83
6261698	96	91	101	87	87	85
6261699	85	86	108	84	79	84
6261700	96	93	106	86	88	84
6261702	98	94	114	87	84	87
6261703	85	81	114	87	80	86
6261704	90	87	104	86	82	84

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261705	94	89	113	86	85	89
Blank	94	94	105	85	86	95
LCS	100	97	106	87	87	90
MS	103	102	106	90	86	92
MSD	105	101	106	88	83	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11112WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261701	56	34	86	93	94	85
6261707	59	34	97	92	91	85
Blank	70	46	98	98	94	86
LCS	66	41	101	97	96	87
LCSD	66	41	96	95	92	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11116SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6261694	94	85	80
6261695	93	85	82
6261696	99	89	78
6261697	96	90	80
6261698	95	84	76
6261699	93	86	79
6261700	92	84	85
6261702	94	87	89
6261703	92	84	88
6261704	86	81	87
6261705	88	83	89
Blank	85	86	94
LCS	91	84	87
MS	91	84	89
MSD	92	85	88
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11116B20A

	Trifluorotoluene-F
6261706	72
Blank	75
LCS	114
LCSD	109
Limits:	63-135

Analysis Name: 16b Energetics by 8330A
Batch number: 111090002A

	2-Nitro-m-xylene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261701	65
Blank	80
LCS	77
LCSD	62
Limits:	50-134

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111100005A

	Butyraldehyde
6261694	112
6261695	104
6261696	111
6261697	104
6261698	103
6261700	105
Blank	109
LCS	105
MS	112
MSD	103
Limits:	64-126

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111110003A

	Butyraldehyde
6261701	114
Blank	111
LCS	111
LCSD	108
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111110024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6261701	104	104
6261707	104	125*
Blank	112	114
LCS	104	103
LCSD	109	115
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111120007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6261694	103	109
6261695	106	118
6261696	109	119
6261697	106	110
6261698	109	135*
6261699	107	118

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

6261700	97	107
6261702	98	112
6261703	109	129*
6261704	107	132*
6261705	103	130*
Blank	102	117
LCS	101	113
LCSD	107	121*
MS	105	109
MSD	97	108
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6261694	102
6261695	100
6261696	106
6261697	104
6261698	97
6261700	108
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101
Limits:	80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111090025A

	Acetone
6261694	72
6261695	76
6261696	72
6261697	67
6261698	71
6261700	77
Blank	94
LCS	91
MS	73
MSD	73
Limits:	42-138

Analysis Name: 21b Glycols by 8015B
Batch number: 111100002A

	Tetramethylene glycol
6261701	101
Blank	102
LCS	105
LCSD	106

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Limits: 77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

	Tetramethylene glycol
6261694	64
6261695	98
6261696	65
6261697	59
6261698	91
6261700	123
Blank	104
LCS	104
MS	110
MSD	91
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111100030A

	n-Triacontane-d62
6261694	66
6261695	65
6261696	64
6261697	65
6261698	66
6261700	65
Blank	103
LCS	77
MS	118
MSD	218*
Limits:	50-150

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111100042A

	n-Triacontane-d62
6261701	75
Blank	71
LCS	68
LCSD	69
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111100043A

	Chlorobenzene	Orthoterphenyl
6261701	82	91
Blank	72	81
LCS	85	98
LCSD	85	100
Limits:	28-152	52-131

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242769
Reported: 05/26/11 at 02:16 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110016A

	Chlorobenzene	Orthoterphenyl
6261694	73	94
6261695	68	94
6261696	81	110
6261697	81	90
6261698	94	112
6261700	89	98
Blank	95	87
LCS	84	98
MS	86	103
MSD	88	97
Limits:	37-125	47-145

Analysis Name: 19b Alcohols by 8015B
Batch number: 111160038A

	Acetone
6261701	99
Blank	101
LCS	96
MS	96
MSD	94
Limits:	54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-056-SA8N-SS-0.0-0.5	04.18.11	1055	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-056-SA8N-SS-0.0-0.5	04.18.11	1055	SOIL	NONE	1 SS sleeve			X	X															
SL-057-SA8N-SS-0.0-0.5	04.18.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SS-0.0-0.5	04.18.11	1010	SOIL	NONE	1 SS sleeve			X	X															
SL-071-SA8N-SS-0.0-0.5	04.18.11	0835	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-071-SA8N-SS-0.0-0.5	04.18.11	0835	SOIL	NONE	1 SS sleeve			X	X															
SL-080-SA8N-SS-0.0-0.5	04.18.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-080-SA8N-SS-0.0-0.5	04.18.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-085-SA8N-SS-0.0-0.5	04.18.11	0815	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-085-SA8N-SS-0.0-0.5	04.18.11	0815	SOIL	NONE	1 SS sleeve			X	X															
SL-086-SA8N-SS-0.0-0.5	04.15.11	1255	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-086-SA8N-SS-0.0-0.5	04.15.11	1255	SOIL	NONE	1 SS sleeve			X	X															
SL-132-SA8N-SS-0.0-0.5	04.18.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-132-SA8N-SS-0.0-0.5	04.18.11	1400	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (*Signature*) — Date/Time: 04/18/2011 / 1700 — Received for Laboratory by: (*Signature*) 4/19/11 950

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8700 5932 2930

Laboratory: Lancaster Laboratories, Inc.

13013 1242769 62616694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which tincores were collected							*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TRH-ERH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	7-1 liter ambers			X	X	X																	
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X														
EB05-SA8N-SS-041811	04.18.11	1200	WATER	HNO3	1-500 mL poly	X																					
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X				
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NaOH	1-500 mL glass																	X					
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	1-250 mL glass														X								
EB05-SA8N-SS-041811	04.18.11	1200	WATER	HCl	2-40 mL vials																					X	
EB05-SA8N-SS-041811	04.18.11	1200	WATER	NONE	4-40 mL vials													X							X		
Relinquished by: (Signature)	Date/Time 04/18/2011 / 1700		Received for Laboratory by: (Signature) 4/19/11 950																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No(s) 8700 5932 2941, 2952																								

13013 1242769 6261694-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196[@]	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-032-SA5A-SB-3.5	04.18.11	0910	SOIL	NONE	4-Encores										X	X											
SL-032-SA5A-SB-3.0-4.0	04.18.11	0914	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-172-SA5A-SB-4.5	04.18.11	1543	SOIL	NONE	4-Encores										X	X											
SL-172-SA5A-SB-4.0-5.0	04.18.11	1545	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-174-SA5A-SB-2.5	04.18.11	1510	SOIL	NONE	4-Encores										X	X											
SL-174-SA5A-SB-2.0-3.0	04.18.11	1505	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-254-SA5A-SB-3.0	04.18.11	1247	SOIL	NONE	4-Encores										X	X											
SL-254-SA5A-SB-2.5-3.5	04.18.11	1245	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041811	04.18.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/18/2011 / 1700		Received for Laboratory by: (Signature) 4/19/11 950																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 2952, 2963																								

13013 1242769 62616947-707

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS										VOCs			
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:							*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers															
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	5-1L amber bottles				X	X	X	X								
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HCl	6-40mL VOA vials												X	X		VOCs were added per PH. NLM 4/21/11
EB13-SA5A-SB-041811	04.18.11	1330	WATER	NONE	1-500mL poly			X					X	X	X					
EB13-SA5A-SB-041811	04.18.11	1330	WATER	HNO3	1-500mL poly		X													
Relinquished by: (*Signature*)	Date/Time 04/18/2011 / 1700		Received for Laboratory by: (*Signature*) 4/19/11 950																Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8700 5932 2963, 2952																	

Nicole Maljovec 13013/ 1242769/ 62G1694-707

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, April 19, 2011 11:17 AM
To: Nicole Maljovec
Subject: RE: 4/14 COC: DUP14-SA5C-QC-041411

Attachments: COC_subsurfaceEB_correction_04 18 11.pdf

COC_subsurfaceEB _correction_04...

Good Morning Nicole

It should be SA5A, thanks! Should I send you an updated COC? I have one more small error from yesterday's COC- EB13-SA5A-QC-041811 should also be checked for VOC's in addition to 1,4 Dioxane. I have attached a spreadshreet with the correction in red.

Thank you!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Tuesday, April 19, 2011 8:14 AM
To: Hartman, Pamela
Subject: 4/14 COC: DUP14-SA5C-QC-041411

Good morning Pam,
When you get a chance, can you check the ID for DUP14? It has SA5C, but all of the other locations are SA5A.

Thanks!
Nicole

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242943
SDG: DE131
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-075-SA8N-SS-0.0-0.5 Soil	6262819
SL-076-SA8N-SS-0.0-0.5 Soil	6262820
SL-077-SA8N-SS-0.0-0.5 Soil	6262821
SL-092-SA8N-SS-0.0-0.5 Soil	6262822
SL-093-SA8N-SS-0.0-0.5 Soil	6262823
SL-094-SA8N-SS-0.0-0.5 Soil	6262824
SL-095-SA8N-SS-0.0-0.5 Soil	6262825
SL-096-SA8N-SS-0.0-0.5 Soil	6262826
SL-097-SA8N-SS-0.0-0.5 Soil	6262827
SL-122-SA8N-SS-0.0-0.5 Soil	6262828
SL-135-SA8N-SS-0.0-0.5 Soil	6262829
SL-138-SA8N-SS-0.0-0.5 Soil	6262830
SL-138-SA8N-SS-0.0-0.5MS Soil	6262831
SL-138-SA8N-SS-0.0-0.5MSD Soil	6262832
SL-138-SA8N-SS-0.0-0.5DUP Soil	6262833
SL-139-SA8N-SS-0.0-0.5 Soil	6262834
SL-140-SA8N-SS-0.0-0.5 Soil	6262835
DUP04-SA8N-QC-041911 Soil	6262836
SL-171-SA5A-SB-2.0-3.0 Soil	6262837
SL-126-SA5A-SB-4.0-5.0 Soil	6262838
SL-127-SA5A-SB-2.0-3.0 Soil	6262839
TB-041911 Water	6262840
EB06-SA8N-SS-041911 Water	6262841
EB14-SA5A-SB-041911 Water	6262842

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	303	J	194	388		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.6		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.86	23.3		1
07914	Boron	7440-42-8	7.50		1.04	5.82		1
01650	Calcium	7440-70-2	46,000		7.14	23.3		1
01654	Iron	7439-89-6	29,600		5.48	23.3		1
01656	Lithium	7439-93-2	28.2		0.26	2.3		1
01657	Magnesium	7439-95-4	8,090		2.96	11.6		1
06958	Manganese	7439-96-5	378		0.0908	0.582		1
10145	Phosphorus	7723-14-0	619		0.652	11.6		1
01662	Potassium	7440-09-7	6,100		21.0	58.2		1
01667	Sodium	7440-23-5	162		43.4	116		1
07968	Strontium	7440-24-6	86.2		0.0722	0.582		1
06969	Tin	7440-31-5	2.35	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,260		0.442	1.16		1
10146	Zirconium	7440-67-7	3.10	J	0.978	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0702	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.13		0.0922	0.461		2
06126	Barium	7440-39-3	127		0.124	0.461		2
06127	Beryllium	7440-41-7	0.797		0.0184	0.115		2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.350		0.0461	0.115		2
06131	Chromium	7440-47-3	35.0		0.138	0.461		2
06132	Cobalt	7440-48-4	12.5		0.0231	0.115		2
06133	Copper	7440-50-8	19.1		0.0761	0.461		2
06135	Lead	7439-92-1	10.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.519		0.0576	0.115		2
06139	Nickel	7440-02-0	22.2		0.115	0.461		2
06141	Selenium	7782-49-2	0.315	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0324	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.393		0.0346	0.115		2
06148	Vanadium	7440-62-2	68.6		0.0254	0.115		2
06149	Zinc	7440-66-6	87.9		0.645	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0139	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	30.1		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	484		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 12:57	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 12:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 02:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 15:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:21	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 21:35	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 11:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 14:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1

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Analysis Report

Sample Description: SL-075-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA8N-SS-0.0-0.5

LLI Sample # SW 6262819
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13101 SDG#: DE131-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 10:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 10:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 14:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 20:55	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	805		188	375		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.3		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	7.5	J	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.5		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.5		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.5		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.5		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.5		5
10225	PCB-1254	11097-69-1	28		1.8	9.5		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.5		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.5		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.5		5

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Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	35		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.60	22.3		1
07914	Boron	7440-42-8	1.64	J	0.991	5.57		1
01650	Calcium	7440-70-2	3,380		6.83	22.3		1
01654	Iron	7439-89-6	24,700		5.25	22.3		1
01656	Lithium	7439-93-2	25.9		0.25	2.2		1
01657	Magnesium	7439-95-4	4,890		2.83	11.1		1
06958	Manganese	7439-96-5	330		0.0869	0.557		1
10145	Phosphorus	7723-14-0	307		0.624	11.1		1
01662	Potassium	7440-09-7	3,840		20.0	55.7		1
01667	Sodium	7440-23-5	166		41.5	111		1
07968	Strontium	7440-24-6	23.6		0.0691	0.557		1
06969	Tin	7440-31-5	2.56	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.423	1.11		1
10146	Zirconium	7440-67-7	2.78	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.90		0.0900	0.450		2
06126	Barium	7440-39-3	123		0.121	0.450		2
06127	Beryllium	7440-41-7	0.844		0.0180	0.112		2

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Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.213		0.0450	0.112		2
06131	Chromium	7440-47-3	26.4		0.135	0.450		2
06132	Cobalt	7440-48-4	9.36		0.0225	0.112		2
06133	Copper	7440-50-8	14.4		0.0742	0.450		2
06135	Lead	7439-92-1	8.49		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.868		0.0562	0.112		2
06139	Nickel	7440-02-0	17.0		0.112	0.450		2
06141	Selenium	7782-49-2	0.250	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0497	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.375		0.0337	0.112		2
06148	Vanadium	7440-62-2	49.9		0.0247	0.112		2
06149	Zinc	7440-66-6	75.4		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0303	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	463		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 13:08	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 02:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 16:10	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:30	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 21:53	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 15:52	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 14:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SS-0.0-0.5

LLI Sample # SW 6262820
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 14:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13102 SDG#: DE131-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 11:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 11:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 15:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/09/2011 21:14	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	575		215	429		10

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 840 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	640		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	640		1
04688	Benzyl alcohol	100-51-6	210	U	210	640		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	85	U	85	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	640		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	85	U	85	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	640		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1

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Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	85	U	85	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	640		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	640		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.86	U	0.86	2.1		1
10138	Acenaphthylene	208-96-8	0.43	U	0.43	2.1		1
10138	Anthracene	120-12-7	0.43	U	0.43	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.86	U	0.86	2.1		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.86	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.86	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.86	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.89	J	0.86	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.7	U	7.7	23		1
10138	Di-n-butylphthalate	84-74-2	7.7	U	7.7	23		1
10138	Chrysene	218-01-9	3.0		0.43	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.86	U	0.86	2.1		1
10138	Diethylphthalate	84-66-2	7.7	U	7.7	23		1
10138	Dimethylphthalate	131-11-3	7.7	U	7.7	23		1
10138	Fluoranthene	206-44-0	2.7		0.86	2.1		1
10138	Fluorene	86-73-7	0.86	U	0.86	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.86	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.86	U	0.86	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.86	U	0.86	2.1		1
10138	Naphthalene	91-20-3	1.3	J	0.86	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.86	U	0.86	2.1		1
10138	Di-n-octylphthalate	117-84-0	10	J	7.7	23		1
10138	Phenanthrene	85-01-8	2.0	J	0.86	2.1		1
10138	Pyrene	129-00-0	1.9	J	0.86	2.1		1

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SL-077-SA8N-SS-0.0-0.5

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13103 SDG#: DE131-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	76	U	76	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	50	U	50	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	100	U	100	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	100	U	100	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	50	U	50	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	50	U	50	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	50	U	50	150	10000000	1
10132	HMX	2691-41-0	130	U	130	380	10000000	1
10132	Nitrobenzene	98-95-3	50	U	50	150	10000000	1
10132	Nitroglycerin	55-63-0	1,000	U	1,000	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	100	U	100	150	10000000	1
10132	3-Nitrotoluene	99-08-1	130	U	130	150	10000000	1
10132	4-Nitrotoluene	99-99-0	100	U	100	150	10000000	1
10132	PETN	78-11-5	1,000	U	1,000	3,000	10000000	1
10132	RDX	121-82-4	63	U	63	150	10000000	1
10132	Tetryl	479-45-8	77	U	77	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	50	U	50	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	50	U	50	150	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	770	U	770	1,900		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	6.4	U	6.4	21		5
10225	Aroclor 5442	12642-23-8	6.4	U	6.4	21		5
10225	Aroclor 5460	11126-42-4	6.4	U	6.4	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11		5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11		5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	28		2.1	11		5
10225	PCB-1260	11096-82-5	2.5	U	2.5	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.51	U	0.51	1.5		1
10199	EFH (C15-C20)	n.a.	0.99	J	0.51	1.5		1
10199	EFH (C21-C30)	n.a.	8.7		0.51	1.5		1
10199	EFH (C30 - C40)	n.a.	34		0.51	1.5		1
10199	EFH (C8-C11)	n.a.	0.51	U	0.51	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	130	U	130	640		1
10501	Isopropanol	67-63-0	130	U	130	640		1
10501	Methanol	67-56-1	130	U	130	640		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.4	U	6.4	16		1
08283	Ethylene glycol	107-21-1	6.4	U	6.4	16		1
08283	Propylene glycol	57-55-6	6.4	U	6.4	16		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.9	U	1.9	4.5		1
10318	o-Terphenyl	84-15-1	1.9	U	1.9	4.5		1
10318	p-Terphenyl	92-94-4	1.9	U	1.9	4.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		6.41	25.5		1
07914	Boron	7440-42-8	2.67	J	1.13	6.37		1
01650	Calcium	7440-70-2	6,600		7.81	25.5		1
01654	Iron	7439-89-6	25,400		6.00	25.5		1
01656	Lithium	7439-93-2	24.9		0.28	2.5		1
01657	Magnesium	7439-95-4	5,790		3.24	12.7		1
06958	Manganese	7439-96-5	439		0.0994	0.637		1
10145	Phosphorus	7723-14-0	616		0.714	12.7		1
01662	Potassium	7440-09-7	4,750		22.9	63.7		1
01667	Sodium	7440-23-5	131		47.5	127		1
07968	Strontium	7440-24-6	30.6		0.0790	0.637		1
06969	Tin	7440-31-5	3.00	J	1.27	12.7		1
06970	Titanium	7440-32-6	1,380		0.484	1.27		1
10146	Zirconium	7440-67-7	3.17	J	1.07	6.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0750	U	0.0750	0.250		2

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Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.100	0.500		2
06126	Barium	7440-39-3	198		0.135	0.500		2
06127	Beryllium	7440-41-7	0.866		0.0200	0.125		2
06128	Cadmium	7440-43-9	0.390		0.0500	0.125		2
06131	Chromium	7440-47-3	31.9		0.150	0.500		2
06132	Cobalt	7440-48-4	11.4		0.0250	0.125		2
06133	Copper	7440-50-8	18.9		0.0825	0.500		2
06135	Lead	7439-92-1	17.2		0.0130	0.250		2
06138	Molybdenum	7439-98-7	0.778		0.0625	0.125		2
06139	Nickel	7440-02-0	21.5		0.125	0.500		2
06141	Selenium	7782-49-2	0.490	J	0.0500	0.500		2
06142	Silver	7440-22-4	0.0695	J	0.0150	0.125		2
06145	Thallium	7440-28-0	0.422		0.0375	0.125		2
06148	Vanadium	7440-62-2	59.6		0.0275	0.125		2
06149	Zinc	7440-66-6	103		0.700	3.75		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0977	J	0.0036	0.124		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		1.0	1.3		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	U	1.0	1.9		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.6	U	11.6	38.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.65		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	475		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	22.3		0.50	0.50		1

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SL-077-SA8N-SS-0.0-0.5

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Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:24	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 13:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 07:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 16:52	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:40	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 22:12	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 16:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 21:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 15:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 11:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 11:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 15:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 21:20	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-077-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA8N-SS-0.0-0.5

LLI Sample # SW 6262821
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 10:30

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13103 SDG#: DE131-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	510		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.9		1
10138	Fluorene	86-73-7	1.7	J	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.74	1.9		1
10138	Pyrene	129-00-0	1.0	J	0.74	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.2	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	3.7		0.89	2.7		2
10199	EFH (C21-C30)	n.a.	13		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	39		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		5.61	22.3		1
07914	Boron	7440-42-8	0.993	U	0.993	5.58		1
01650	Calcium	7440-70-2	3,180		6.84	22.3		1
01654	Iron	7439-89-6	21,100		5.26	22.3		1
01656	Lithium	7439-93-2	24.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,430		2.83	11.2		1
06958	Manganese	7439-96-5	423		0.0871	0.558		1
10145	Phosphorus	7723-14-0	524		0.625	11.2		1
01662	Potassium	7440-09-7	3,910		20.1	55.8		1
01667	Sodium	7440-23-5	85.5	J	41.6	112		1
07968	Strontium	7440-24-6	22.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.51	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,060		0.424	1.12		1
10146	Zirconium	7440-67-7	1.80	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0850	0.425		2
06126	Barium	7440-39-3	129		0.115	0.425		2
06127	Beryllium	7440-41-7	0.670		0.0170	0.106		2

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.257		0.0425	0.106		2
06131	Chromium	7440-47-3	17.3		0.128	0.425		2
06132	Cobalt	7440-48-4	6.80		0.0213	0.106		2
06133	Copper	7440-50-8	11.3		0.0702	0.425		2
06135	Lead	7439-92-1	12.3		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.632		0.0531	0.106		2
06139	Nickel	7440-02-0	12.9		0.106	0.425		2
06141	Selenium	7782-49-2	0.174	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0490	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.298		0.0319	0.106		2
06148	Vanadium	7440-62-2	35.4		0.0234	0.106		2
06149	Zinc	7440-66-6	78.2		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.182		0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.6		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	490		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:41	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 14:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 08:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 17:35	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/27/2011 22:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 10:21	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 18:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 15:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 16:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA8N-SS-0.0-0.5

LLI Sample # SW 6262822
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:35

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13104 SDG#: DE131-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 16:20	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 22:56	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:05	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	191	U	191	381		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.93	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.8		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.6	J	0.76	1.9		1
10138	Fluorene	86-73-7	1.8	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1

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Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,400		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	7.6	J	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	13		1.9	9.7		5
10225	PCB-1260	11096-82-5	6.9	J	2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	U	0.91	2.7		2
10199	EFH (C15-C20)	n.a.	3.0		0.91	2.7		2
10199	EFH (C21-C30)	n.a.	18		0.91	2.7		2
10199	EFH (C30 - C40)	n.a.	48		0.91	2.7		2
10199	EFH (C8-C11)	n.a.	0.91	U	0.91	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.64	22.4		1
07914	Boron	7440-42-8	1.75	J	0.997	5.60		1
01650	Calcium	7440-70-2	3,980		6.87	22.4		1
01654	Iron	7439-89-6	19,700		5.28	22.4		1
01656	Lithium	7439-93-2	24.3		0.25	2.2		1
01657	Magnesium	7439-95-4	4,250		2.85	11.2		1
06958	Manganese	7439-96-5	414		0.0874	0.560		1
10145	Phosphorus	7723-14-0	544		0.627	11.2		1
01662	Potassium	7440-09-7	3,440		20.2	56.0		1
01667	Sodium	7440-23-5	76.2	J	41.8	112		1
07968	Strontium	7440-24-6	22.4		0.0695	0.560		1
06969	Tin	7440-31-5	2.46	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,010		0.426	1.12		1
10146	Zirconium	7440-67-7	1.24	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0947	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.75		0.0896	0.448		2
06126	Barium	7440-39-3	146		0.121	0.448		2
06127	Beryllium	7440-41-7	0.720		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.518		0.0448	0.112		2
06131	Chromium	7440-47-3	20.8		0.134	0.448		2
06132	Cobalt	7440-48-4	7.76		0.0224	0.112		2
06133	Copper	7440-50-8	15.4		0.0739	0.448		2
06135	Lead	7439-92-1	22.1		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.915		0.0560	0.112		2
06139	Nickel	7440-02-0	16.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.223	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.123		0.0134	0.112		2
06145	Thallium	7440-28-0	0.334		0.0336	0.112		2
06148	Vanadium	7440-62-2	40.2		0.0246	0.112		2
06149	Zinc	7440-66-6	94.3		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.77		0.0153	0.532		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	478		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 13:57	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 14:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 08:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 18:17	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 03:59	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:03	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 10:46	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/21/2011 23:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 17:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-093-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA8N-SS-0.0-0.5

LLI Sample # SW 6262823
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13105 SDG#: DE131-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:35	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 06:35	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 12:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 16:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:08	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:06	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.1	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.79	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.37	21.4		1
07914	Boron	7440-42-8	4.41	J	0.951	5.34		1
01650	Calcium	7440-70-2	5,120		6.55	21.4		1
01654	Iron	7439-89-6	28,100		5.03	21.4		1
01656	Lithium	7439-93-2	24.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,770		2.71	10.7		1
06958	Manganese	7439-96-5	347		0.0833	0.534		1
10145	Phosphorus	7723-14-0	276		0.598	10.7		1
01662	Potassium	7440-09-7	4,330		19.2	53.4		1
01667	Sodium	7440-23-5	84.0	J	39.8	107		1
07968	Strontium	7440-24-6	32.5		0.0662	0.534		1
06969	Tin	7440-31-5	2.56	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.406	1.07		1
10146	Zirconium	7440-67-7	3.61	J	0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.05		0.0838	0.419		2
06126	Barium	7440-39-3	134		0.283	1.05		5
06127	Beryllium	7440-41-7	1.08		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.355		0.0419	0.105		2
06131	Chromium	7440-47-3	36.4		0.126	0.419		2
06132	Cobalt	7440-48-4	13.3		0.0209	0.105		2
06133	Copper	7440-50-8	19.7		0.0691	0.419		2
06135	Lead	7439-92-1	14.4		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.551		0.0524	0.105		2
06139	Nickel	7440-02-0	25.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.202	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0569	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.443		0.0314	0.105		2
06148	Vanadium	7440-62-2	68.9		0.0230	0.105		2
06149	Zinc	7440-66-6	87.8		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0323	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.22	1.1		1

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Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	349	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.79	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	7.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011	14:54	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011	09:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011	13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011	09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011	00:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011	03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011	16:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011	18:14	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262824
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13106 SDG#: DE131-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:39	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 15:10	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 12:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/09/2011 23:27	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.87	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.5	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.98	J	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.69	22.6		1
07914	Boron	7440-42-8	2.84	J	1.01	5.66		1
01650	Calcium	7440-70-2	4,640		6.93	22.6		1
01654	Iron	7439-89-6	24,000		5.33	22.6		1
01656	Lithium	7439-93-2	21.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,050		2.87	11.3		1
06958	Manganese	7439-96-5	294		0.0882	0.566		1
10145	Phosphorus	7723-14-0	356		0.633	11.3		1
01662	Potassium	7440-09-7	3,510		20.4	56.6		1
01667	Sodium	7440-23-5	77.9	J	42.2	113		1
07968	Strontium	7440-24-6	25.4		0.0701	0.566		1
06969	Tin	7440-31-5	2.53	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,210		0.430	1.13		1
10146	Zirconium	7440-67-7	2.88	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0666	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.49		0.0879	0.439		2
06126	Barium	7440-39-3	163		0.119	0.439		2
06127	Beryllium	7440-41-7	0.921		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.236		0.0439	0.110		2
06131	Chromium	7440-47-3	30.1		0.132	0.439		2
06132	Cobalt	7440-48-4	12.5		0.0220	0.110		2
06133	Copper	7440-50-8	16.9		0.0725	0.439		2
06135	Lead	7439-92-1	12.5		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.545		0.0549	0.110		2
06139	Nickel	7440-02-0	21.2		0.110	0.439		2
06141	Selenium	7782-49-2	0.153	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0523	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.396		0.0329	0.110		2
06148	Vanadium	7440-62-2	59.0		0.0242	0.110		2
06149	Zinc	7440-66-6	84.3		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	368	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.07	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011	15:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011	09:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011	13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011	09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011	00:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011	03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011	16:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011	18:18	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262825
LLI Group # 1242943
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13107 SDG#: DE131-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:43	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182103B	04/21/2011 12:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039403B	04/21/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.49	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.86	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.3	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.72	1.8		1
10138	Pyrene	129-00-0	0.89	J	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.65	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.30	21.1		1
07914	Boron	7440-42-8	4.14	J	0.937	5.27		1
01650	Calcium	7440-70-2	4,700		6.46	21.1		1
01654	Iron	7439-89-6	25,400		4.96	21.1		1
01656	Lithium	7439-93-2	21.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,320		2.67	10.5		1
06958	Manganese	7439-96-5	325		0.0821	0.527		1
10145	Phosphorus	7723-14-0	265		0.590	10.5		1
01662	Potassium	7440-09-7	3,990		19.0	52.7		1
01667	Sodium	7440-23-5	85.0	J	39.3	105		1
07968	Strontium	7440-24-6	28.1		0.0653	0.527		1
06969	Tin	7440-31-5	2.51	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,150		0.400	1.05		1
10146	Zirconium	7440-67-7	3.50	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0632	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.71		0.0842	0.421		2
06126	Barium	7440-39-3	141		0.114	0.421		2
06127	Beryllium	7440-41-7	0.890		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.329		0.0421	0.105		2
06131	Chromium	7440-47-3	29.4		0.126	0.421		2
06132	Cobalt	7440-48-4	10.2		0.0211	0.105		2
06133	Copper	7440-50-8	15.6		0.0695	0.421		2
06135	Lead	7439-92-1	11.6		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.398		0.0527	0.105		2
06139	Nickel	7440-02-0	19.9		0.105	0.421		2
06141	Selenium	7782-49-2	0.150	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0370	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.385		0.0316	0.105		2
06148	Vanadium	7440-62-2	57.1		0.0232	0.105		2
06149	Zinc	7440-66-6	66.6		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0149	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

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Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13108 SDG#: DE131-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	391	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.88	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	6.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 15:47	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 10:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 00:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:24	John P Hook	1

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262826
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13108 SDG#: DE131-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 17:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.88	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.3		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	3.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.92	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.6	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	2.7		0.77	1.9		1
10138	Pyrene	129-00-0	2.1		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.74	22.8		1
07914	Boron	7440-42-8	4.55	J	1.02	5.71		1
01650	Calcium	7440-70-2	5,560		7.00	22.8		1
01654	Iron	7439-89-6	29,100		5.38	22.8		1
01656	Lithium	7439-93-2	23.7		0.25	2.3		1
01657	Magnesium	7439-95-4	6,160		2.90	11.4		1
06958	Manganese	7439-96-5	410		0.0891	0.571		1
10145	Phosphorus	7723-14-0	302		0.640	11.4		1
01662	Potassium	7440-09-7	4,630		20.6	57.1		1
01667	Sodium	7440-23-5	94.9	J	42.6	114		1
07968	Strontium	7440-24-6	35.4		0.0708	0.571		1
06969	Tin	7440-31-5	2.55	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,200		0.434	1.14		1
10146	Zirconium	7440-67-7	3.77	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0665	U	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61		0.0887	0.444		2
06126	Barium	7440-39-3	166		0.120	0.444		2
06127	Beryllium	7440-41-7	0.987		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.308		0.0444	0.111		2
06131	Chromium	7440-47-3	33.8		0.133	0.444		2
06132	Cobalt	7440-48-4	11.8		0.0222	0.111		2
06133	Copper	7440-50-8	19.5		0.0732	0.444		2
06135	Lead	7439-92-1	13.2		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.547		0.0555	0.111		2
06139	Nickel	7440-02-0	23.4		0.111	0.444		2
06141	Selenium	7782-49-2	0.177	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0580	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.406		0.0333	0.111		2
06148	Vanadium	7440-62-2	64.9		0.0244	0.111		2
06149	Zinc	7440-66-6	85.7		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0149	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
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13109 SDG#: DE131-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential		n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	6.89	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3		n.a.	13.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 16:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 11:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:28	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262827
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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

13109 SDG#: DE131-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:51	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 14:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11123495201A	05/09/2011 19:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/09/2011 23:58	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	348		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.86	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.70	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	1.0	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	0.97	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	7.4		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	23		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.15	20.5		1
07914	Boron	7440-42-8	1.82	J	0.912	5.12		1
01650	Calcium	7440-70-2	3,860		6.28	20.5		1
01654	Iron	7439-89-6	20,000		4.83	20.5		1
01656	Lithium	7439-93-2	27.7		0.23	2.0		1
01657	Magnesium	7439-95-4	4,790		2.60	10.2		1
06958	Manganese	7439-96-5	353		0.0799	0.512		1
10145	Phosphorus	7723-14-0	621		0.574	10.2		1
01662	Potassium	7440-09-7	3,960		18.4	51.2		1
01667	Sodium	7440-23-5	65.8	J	38.2	102		1
07968	Strontium	7440-24-6	18.4		0.0635	0.512		1
06969	Tin	7440-31-5	2.58	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,180		0.389	1.02		1
10146	Zirconium	7440-67-7	2.53	J	0.861	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0862	J	0.0615	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

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13110 SDG#: DE131-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.72		0.0820	0.410		2
06126	Barium	7440-39-3	113		0.111	0.410		2
06127	Beryllium	7440-41-7	0.544		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.310		0.0410	0.102		2
06131	Chromium	7440-47-3	16.5		0.123	0.410		2
06132	Cobalt	7440-48-4	6.73		0.0205	0.102		2
06133	Copper	7440-50-8	11.0		0.0676	0.410		2
06135	Lead	7439-92-1	13.1		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.364		0.0512	0.102		2
06139	Nickel	7440-02-0	12.7		0.102	0.410		2
06141	Selenium	7782-49-2	0.147	J	0.0410	0.410		2
06142	Silver	7440-22-4	0.0520	J	0.0123	0.102		2
06145	Thallium	7440-28-0	0.255		0.0307	0.102		2
06148	Vanadium	7440-62-2	32.8		0.0225	0.102		2
06149	Zinc	7440-66-6	82.7		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0209	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
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13110 SDG#: DE131-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:14	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 16:40	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 12:06	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 19:00	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 12:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/22/2011 00:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 18:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262828
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13110 SDG#: DE131-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:32	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 15:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201A	05/03/2011 14:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201A	05/03/2011 14:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201A	05/05/2011 18:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 02:52	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201A	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	27.3	J	18.2	36.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.3		0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.9		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.34	21.2		1
07914	Boron	7440-42-8	1.54	J	0.945	5.31		1
01650	Calcium	7440-70-2	2,350		6.51	21.2		1
01654	Iron	7439-89-6	16,300		5.00	21.2		1
01656	Lithium	7439-93-2	16.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,470		2.70	10.6		1
06958	Manganese	7439-96-5	236		0.0829	0.531		1
10145	Phosphorus	7723-14-0	304		0.595	10.6		1
01662	Potassium	7440-09-7	2,810		19.1	53.1		1
01667	Sodium	7440-23-5	65.0	J	39.6	106		1
07968	Strontium	7440-24-6	18.7		0.0659	0.531		1
06969	Tin	7440-31-5	2.31	J	1.06	10.6		1
06970	Titanium	7440-32-6	956		0.404	1.06		1
10146	Zirconium	7440-67-7	1.61	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0727	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.40		0.0867	0.433		2
06126	Barium	7440-39-3	94.4		0.117	0.433		2
06127	Beryllium	7440-41-7	0.615		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.128		0.0433	0.108		2
06131	Chromium	7440-47-3	17.8		0.130	0.433		2
06132	Cobalt	7440-48-4	6.21		0.0217	0.108		2
06133	Copper	7440-50-8	8.84		0.0715	0.433		2
06135	Lead	7439-92-1	8.62		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.476		0.0542	0.108		2
06139	Nickel	7440-02-0	11.4		0.108	0.433		2
06141	Selenium	7782-49-2	0.184	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0146	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.259		0.0325	0.108		2
06148	Vanadium	7440-62-2	35.6		0.0238	0.108		2
06149	Zinc	7440-66-6	57.6		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0158	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	420		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 17:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 12:38	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 19:42	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:18	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 01:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 12:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111110008A	04/22/2011 00:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 19:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111110008A	04/21/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262829
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13111 SDG#: DE131-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 20:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11126243201A	05/10/2011 00:10	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201A	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	45.2		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 125 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.86	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	1.7	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.96	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.1	J	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.86	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.2	J	0.42	1.8		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.85	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	5.8		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	22		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	14		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	14		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.43	21.6		1
07914	Boron	7440-42-8	1.44	J	0.960	5.39		1
01650	Calcium	7440-70-2	2,180		6.61	21.6		1
01654	Iron	7439-89-6	18,600		5.08	21.6		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,060		2.74	10.8		1
06958	Manganese	7439-96-5	309		0.0841	0.539		1
10145	Phosphorus	7723-14-0	431		0.604	10.8		1
01662	Potassium	7440-09-7	3,530		19.4	53.9		1
01667	Sodium	7440-23-5	69.8	J	40.2	108		1
07968	Strontium	7440-24-6	14.7		0.0669	0.539		1
06969	Tin	7440-31-5	2.38	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,080		0.410	1.08		1
10146	Zirconium	7440-67-7	1.84	J	0.906	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0654	U	0.0654	0.218		2

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Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.92		0.0871	0.436		2
06126	Barium	7440-39-3	116		0.118	0.436		2
06127	Beryllium	7440-41-7	0.629		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.150		0.0436	0.109		2
06131	Chromium	7440-47-3	18.2		0.131	0.436		2
06132	Cobalt	7440-48-4	6.90		0.0218	0.109		2
06133	Copper	7440-50-8	10.1		0.0719	0.436		2
06135	Lead	7439-92-1	12.9		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.502		0.0545	0.109		2
06139	Nickel	7440-02-0	13.2		0.109	0.436		2
06141	Selenium	7782-49-2	0.122	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0257	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.300		0.0327	0.109		2
06148	Vanadium	7440-62-2	37.0		0.0240	0.109		2
06149	Zinc	7440-66-6	79.3		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 14:46	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 17:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 00:42	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 20:25	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 13:22	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 19:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 20:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 15:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 14:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 14:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 18:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 00:23	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 08:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262830
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	545		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 565 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,200		180	540		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	2,200		180	540		1
04688	Benzyl alcohol	100-51-6	1,700		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,200		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	2,100		36	180		1
04688	4-Chloroaniline	106-47-8	1,200		72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,200		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		36	180		1
04688	Chrysene	218-01-9	1,900		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	950		180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,500		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200	18	360		1
04688	Fluoranthene	206-44-0	1,600	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,500	180	540		1
04688	Hexachloroethane	67-72-1	1,500	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	18	180		1
04688	Isophorone	78-59-1	1,800	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,800	36	180		1
04688	4-Methylphenol	106-44-5	1,800	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	2,000	18	180		1
04688	3-Nitroaniline	99-09-2	1,900	36	180		1
04688	4-Nitroaniline	100-01-6	1,600	72	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,700	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	660	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,900	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	36	0.73	1.8		1
10138	Acenaphthylene	208-96-8	34	0.36	1.8		1
10138	Anthracene	120-12-7	36	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	37	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	42	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	50	0.73	1.8		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Benzo(g,h,i)perylene	191-24-2	22		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	42		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	38		6.5	20		1
10138	Chrysene	218-01-9	37		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.73	1.8		1
10138	Diethylphthalate	84-66-2	30		6.5	20		1
10138	Dimethylphthalate	131-11-3	36		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.5	20		1
10138	Fluoranthene	206-44-0	40		0.73	1.8		1
10138	Fluorene	86-73-7	37		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	58		6.5	20		1
10138	Phenanthrene	85-01-8	36		0.73	1.8		1
10138	Pyrene	129-00-0	35		0.73	1.8		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,100		63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,100		42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,100		42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,200		42	130	10000000	1
10132	HMX	2691-41-0	1,900		100	310	10000000	1
10132	Nitrobenzene	98-95-3	2,000		42	130	10000000	1
10132	Nitroglycerin	55-63-0	47,000		840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	2,100		84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,200		100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,100		84	130	10000000	1
10132	PETN	78-11-5	57,000		840	2,500	10000000	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

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Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	1,900		52	130	10000000	1
10132	Tetryl	479-45-8	1,900		64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,100		42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	11,000		1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	17		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	9.3		0.36	1.8		1
10225	PCB-1260	11096-82-5	21		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.72	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	540		1
10501	Isopropanol	67-63-0	2,200		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	200		5.4	14		1
08283	Ethylene glycol	107-21-1	180		5.4	14		1
08283	Propylene glycol	57-55-6	200		5.4	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.4	1.4		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.37	21.4		1
07914	Boron	7440-42-8	212		0.950	5.34		1
01650	Calcium	7440-70-2	2,810		6.55	21.4		1
01654	Iron	7439-89-6	19,400		5.03	21.4		1
01656	Lithium	7439-93-2	131		0.23	2.1		1
01657	Magnesium	7439-95-4	4,370		2.71	10.7		1
06958	Manganese	7439-96-5	364		0.0833	0.534		1
10145	Phosphorus	7723-14-0	523		0.598	10.7		1
01662	Potassium	7440-09-7	4,760		19.2	53.4		1
01667	Sodium	7440-23-5	1,140		39.8	107		1
07968	Strontium	7440-24-6	124		0.0662	0.534		1
06969	Tin	7440-31-5	372		1.07	10.7		1
06970	Titanium	7440-32-6	1,290		0.406	1.07		1
10146	Zirconium	7440-67-7	98.5		0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.451		0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.13		0.0846	0.423		2
06126	Barium	7440-39-3	124		0.114	0.423		2
06127	Beryllium	7440-41-7	1.58		0.0169	0.106		2
06128	Cadmium	7440-43-9	1.37		0.0423	0.106		2
06131	Chromium	7440-47-3	29.6		0.127	0.423		2
06132	Cobalt	7440-48-4	71.9		0.0212	0.106		2
06133	Copper	7440-50-8	22.5		0.0698	0.423		2
06135	Lead	7439-92-1	15.8		0.0110	0.212		2
06138	Molybdenum	7439-98-7	12.5		0.0529	0.106		2
06139	Nickel	7440-02-0	25.4		0.106	0.423		2
06141	Selenium	7782-49-2	2.51		0.0423	0.423		2
06142	Silver	7440-22-4	13.1		0.0127	0.106		2
06145	Thallium	7440-28-0	0.771		0.0317	0.106		2
06148	Vanadium	7440-62-2	46.8		0.0233	0.106		2
06149	Zinc	7440-66-6	86.8		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.8		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	509	9.8	32.7		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.3	1.1	5.4		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	6.2	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 01:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 21:07	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 13:47	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 20:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 20:43	Dustin A Underkoffler	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 20:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 19:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 00:42	Venia B McFadden	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262831
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	556		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 625 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,200		180	540		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	2,000		180	540		1
04688	Benzyl alcohol	100-51-6	1,800		180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,200		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		36	180		1
04688	4-Chloroaniline	106-47-8	1,100		72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,600		18	180		1
04688	2-Chlorophenol	95-57-8	1,900		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		36	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,900		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		36	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000		36	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	900		180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,400		360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,000		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	18	360		1
04688	Fluoranthene	206-44-0	1,700	18	180		1
04688	Fluorene	86-73-7	1,900	18	180		1
04688	Hexachlorobenzene	118-74-1	1,800	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,500	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	1,400	180	540		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,800	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,900	36	180		1
04688	4-Methylphenol	106-44-5	1,900	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	2,100	18	180		1
04688	3-Nitroaniline	99-09-2	2,000	36	180		1
04688	4-Nitroaniline	100-01-6	1,600	72	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,800	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,100	18	180		1
04688	Pentachlorophenol	87-86-5	970	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.73	1.8		1
10138	Acenaphthylene	208-96-8	35	0.36	1.8		1
10138	Anthracene	120-12-7	35	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	41	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	48	0.73	1.8		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(g,h,i)perylene	191-24-2	21		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	40		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	37		6.5	20		1
10138	Chrysene	218-01-9	36		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.73	1.8		1
10138	Diethylphthalate	84-66-2	30		6.5	20		1
10138	Dimethylphthalate	131-11-3	36		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.5	20		1
10138	Fluoranthene	206-44-0	38		0.73	1.8		1
10138	Fluorene	86-73-7	36		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	31		0.73	1.8		1
10138	Naphthalene	91-20-3	33		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	55		6.5	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,200		42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,300		42	130	10000000	1
10132	HMX	2691-41-0	2,100		100	310	10000000	1
10132	Nitrobenzene	98-95-3	2,300		42	130	10000000	1
10132	Nitroglycerin	55-63-0	50,000		840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	2,200		84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,300		100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		84	130	10000000	1
10132	PETN	78-11-5	61,000		840	2,500	10000000	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	2,000		52	130	10000000	1
10132	Tetryl	479-45-8	1,900		64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	11,000		1,300	3,300		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	18		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	11		0.36	1.8		1
10225	PCB-1260	11096-82-5	24		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	2.7		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.69	J	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	540		1
10501	Isopropanol	67-63-0	2,200		110	540		1
10501	Methanol	67-56-1	2,200		110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	210		5.4	14		1
08283	Ethylene glycol	107-21-1	180		5.4	14		1
08283	Propylene glycol	57-55-6	190		5.4	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
sample matrix and the data is reported.								
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.5	1.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.7	J	1.5	7.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.32	21.2		1
07914	Boron	7440-42-8	210		0.941	5.29		1
01650	Calcium	7440-70-2	2,860		6.48	21.2		1
01654	Iron	7439-89-6	19,700		4.98	21.2		1
01656	Lithium	7439-93-2	131		0.23	2.1		1
01657	Magnesium	7439-95-4	4,430		2.69	10.6		1
06958	Manganese	7439-96-5	367		0.0825	0.529		1
10145	Phosphorus	7723-14-0	521		0.592	10.6		1
01662	Potassium	7440-09-7	4,810		19.0	52.9		1
01667	Sodium	7440-23-5	1,140		39.4	106		1
07968	Strontium	7440-24-6	122		0.0656	0.529		1
06969	Tin	7440-31-5	370		1.06	10.6		1
06970	Titanium	7440-32-6	1,330		0.402	1.06		1
10146	Zirconium	7440-67-7	98.4		0.888	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.569		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.37		0.0863	0.431		2
06126	Barium	7440-39-3	171		0.116	0.431		2
06127	Beryllium	7440-41-7	1.65		0.0173	0.108		2
06128	Cadmium	7440-43-9	1.53		0.0431	0.108		2
06131	Chromium	7440-47-3	29.5		0.129	0.431		2
06132	Cobalt	7440-48-4	75.4		0.0216	0.108		2
06133	Copper	7440-50-8	23.8		0.0712	0.431		2
06135	Lead	7439-92-1	16.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	13.2		0.0539	0.108		2
06139	Nickel	7440-02-0	26.9		0.108	0.431		2
06141	Selenium	7782-49-2	2.58		0.0431	0.431		2
06142	Silver	7440-22-4	13.5		0.0129	0.108		2
06145	Thallium	7440-28-0	0.783		0.0324	0.108		2
06148	Vanadium	7440-62-2	48.0		0.0237	0.108		2
06149	Zinc	7440-66-6	89.3		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175		0.0029	0.103		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:19	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	04/30/2011 01:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 23:14	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 04:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 02:51	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 14:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150025A	04/25/2011 20:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 21:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 21:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150025A	04/25/2011 15:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1

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Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262832
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 16:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.32	21.2		1
07914	Boron	7440-42-8	0.941	U	0.941	5.29		1
01650	Calcium	7440-70-2	2,130		6.48	21.2		1
01654	Iron	7439-89-6	19,000		4.98	21.2		1
01656	Lithium	7439-93-2	25.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,050		2.69	10.6		1
06958	Manganese	7439-96-5	312		0.0825	0.529		1
10145	Phosphorus	7723-14-0	423		0.592	10.6		1
01662	Potassium	7440-09-7	3,500		19.0	52.9		1
01667	Sodium	7440-23-5	67.4	J	39.4	106		1
07968	Strontium	7440-24-6	14.3		0.0656	0.529		1
06969	Tin	7440-31-5	2.53	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.402	1.06		1
10146	Zirconium	7440-67-7	2.41	J	0.888	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0727	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0854	0.427		2
06126	Barium	7440-39-3	100		0.115	0.427		2
06127	Beryllium	7440-41-7	0.541		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.191		0.0427	0.107		2
06131	Chromium	7440-47-3	16.2		0.128	0.427		2
06132	Cobalt	7440-48-4	5.84		0.0214	0.107		2
06133	Copper	7440-50-8	8.92		0.0705	0.427		2
06135	Lead	7439-92-1	11.6		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.513		0.0534	0.107		2
06139	Nickel	7440-02-0	11.4		0.107	0.427		2
06141	Selenium	7782-49-2	0.126	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0348	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.310		0.0320	0.107		2
06148	Vanadium	7440-62-2	33.0		0.0235	0.107		2
06149	Zinc	7440-66-6	68.7		0.598	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0192	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	451		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	8.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 17:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 15:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 11:16	Choon Y Tian	2

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262833
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13112 SDG#: DE131-12DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 11:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 11:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 11:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 14:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 14:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 19:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 01:25	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:11	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	61.6		17.5	34.9		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.84	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.0	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	J	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,100		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.75	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.68	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.83	U	0.83	2.5		2
10199	EFH (C15-C20)	n.a.	3.6		0.83	2.5		2
10199	EFH (C21-C30)	n.a.	17		0.83	2.5		2
10199	EFH (C30 - C40)	n.a.	49		0.83	2.5		2
10199	EFH (C8-C11)	n.a.	0.83	U	0.83	2.5		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	13		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	13		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.17	20.6		1
07914	Boron	7440-42-8	0.915	U	0.915	5.14		1
01650	Calcium	7440-70-2	2,380		6.30	20.6		1
01654	Iron	7439-89-6	18,900		4.84	20.6		1
01656	Lithium	7439-93-2	25.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,150		2.61	10.3		1
06958	Manganese	7439-96-5	295		0.0802	0.514		1
10145	Phosphorus	7723-14-0	464		0.575	10.3		1
01662	Potassium	7440-09-7	3,480		18.5	51.4		1
01667	Sodium	7440-23-5	70.2	J	38.3	103		1
07968	Strontium	7440-24-6	15.0		0.0637	0.514		1
06969	Tin	7440-31-5	2.39	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,080		0.391	1.03		1
10146	Zirconium	7440-67-7	1.50	J	0.863	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0617	U	0.0617	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0822	0.411		2
06126	Barium	7440-39-3	109		0.111	0.411		2
06127	Beryllium	7440-41-7	0.571		0.0164	0.103		2

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Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.239		0.0411	0.103		2
06131	Chromium	7440-47-3	16.6		0.123	0.411		2
06132	Cobalt	7440-48-4	6.51		0.0206	0.103		2
06133	Copper	7440-50-8	9.55		0.0678	0.411		2
06135	Lead	7439-92-1	10.9		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.548		0.0514	0.103		2
06139	Nickel	7440-02-0	12.1		0.103	0.411		2
06141	Selenium	7782-49-2	0.106	J	0.0411	0.411		2
06142	Silver	7440-22-4	0.0434	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.281		0.0308	0.103		2
06148	Vanadium	7440-62-2	33.9		0.0226	0.103		2
06149	Zinc	7440-66-6	72.2		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089	J	0.0028	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	456		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 15:53	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 18:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 13:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 23:57	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:06	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 11:11	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 21:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:32	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 22:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262834
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13113 SDG#: DE131-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:11	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 20:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 01:38	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.9	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.5	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1

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Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,400		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	1.5	J	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.7		2
10199	EFH (C15-C20)	n.a.	2.6	J	0.92	2.7		2
10199	EFH (C21-C30)	n.a.	14		0.92	2.7		2
10199	EFH (C30 - C40)	n.a.	48		0.92	2.7		2
10199	EFH (C8-C11)	n.a.	0.92	U	0.92	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.59	22.2		1
07914	Boron	7440-42-8	1.12	J	0.989	5.55		1
01650	Calcium	7440-70-2	3,990		6.81	22.2		1
01654	Iron	7439-89-6	19,400		5.23	22.2		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	4,300		2.82	11.1		1
06958	Manganese	7439-96-5	362		0.0866	0.555		1
10145	Phosphorus	7723-14-0	494		0.622	11.1		1
01662	Potassium	7440-09-7	3,690		20.0	55.5		1
01667	Sodium	7440-23-5	77.7	J	41.4	111		1
07968	Strontium	7440-24-6	23.0		0.0689	0.555		1
06969	Tin	7440-31-5	2.54	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,030		0.422	1.11		1
10146	Zirconium	7440-67-7	2.13	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.279		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0889	0.444		2
06126	Barium	7440-39-3	133		0.120	0.444		2
06127	Beryllium	7440-41-7	0.633		0.0178	0.111		2

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Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

13114 SDG#: DE131-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.283		0.0444	0.111		2
06131	Chromium	7440-47-3	19.9		0.133	0.444		2
06132	Cobalt	7440-48-4	7.32		0.0222	0.111		2
06133	Copper	7440-50-8	14.0		0.0733	0.444		2
06135	Lead	7439-92-1	18.0		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.600		0.0555	0.111		2
06139	Nickel	7440-02-0	15.1		0.111	0.444		2
06141	Selenium	7782-49-2	0.204	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0531	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.314		0.0333	0.111		2
06148	Vanadium	7440-62-2	38.2		0.0244	0.111		2
06149	Zinc	7440-66-6	79.7		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0268	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.7		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	461		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

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14420 Albemarle Point Place
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13114 SDG#: DE131-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 16:09	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/27/2011 19:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 13:42	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	05/01/2011 00:39	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:15	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	05/02/2011 11:36	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 21:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 19:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 23:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1

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SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262835
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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13114 SDG#: DE131-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 15:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 15:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:07	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 01:56	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201A	04/29/2011 09:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201A	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	43.8		18.3	36.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 34.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at a concentration of 48.4 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.42	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,300	U	1,300	3,200		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.89	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.93	J	0.43	1.9		1

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SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
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13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.97	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	8.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	35		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		5.45	21.7		1
07914	Boron	7440-42-8	0.965	U	0.965	5.42		1
01650	Calcium	7440-70-2	2,280		6.65	21.7		1
01654	Iron	7439-89-6	19,400		5.11	21.7		1
01656	Lithium	7439-93-2	25.2		0.24	2.2		1
01657	Magnesium	7439-95-4	4,100		2.75	10.8		1
06958	Manganese	7439-96-5	306		0.0846	0.542		1
10145	Phosphorus	7723-14-0	439		0.607	10.8		1
01662	Potassium	7440-09-7	3,580		19.5	54.2		1
01667	Sodium	7440-23-5	67.8	J	40.4	108		1
07968	Strontium	7440-24-6	15.5		0.0672	0.542		1
06969	Tin	7440-31-5	2.28	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,050		0.412	1.08		1
10146	Zirconium	7440-67-7	1.51	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0644	0.215		2

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SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.46		0.0859	0.430		2
06126	Barium	7440-39-3	123		0.116	0.430		2
06127	Beryllium	7440-41-7	0.630		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.224		0.0430	0.107		2
06131	Chromium	7440-47-3	19.1		0.129	0.430		2
06132	Cobalt	7440-48-4	7.53		0.0215	0.107		2
06133	Copper	7440-50-8	11.7		0.0709	0.430		2
06135	Lead	7439-92-1	13.8		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.591		0.0537	0.107		2
06139	Nickel	7440-02-0	14.1		0.107	0.430		2
06141	Selenium	7782-49-2	0.156	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0477	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.298		0.0322	0.107		2
06148	Vanadium	7440-62-2	38.9		0.0236	0.107		2
06149	Zinc	7440-66-6	85.5		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.7		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	464		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

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DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
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13115 SDG#: DE131-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11117SLE026	05/04/2011 16:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 12:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 14:14	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11117SLE026	04/27/2011 16:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	05/01/2011 01:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 03:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111160004A	04/26/2011 15:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 15:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 22:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 20:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/04/2011 23:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11122621201B	05/03/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:29	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11126243201A	05/10/2011 02:02	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:17	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262836
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13115 SDG#: DE131-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.8		0.81
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.81
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.81
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.81
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.81
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.81
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.81
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.81
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.81
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.81
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.81
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.81
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.81
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.81
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.81
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.81
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.81
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.81
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.81
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.81
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.81
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.81
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.81
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.81
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.81
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.81
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.81
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.81
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.81
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.81
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.81
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.81
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.81
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.81
06192	Methylene Chloride	75-09-2	0.65	J	0.24	3.9		0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.81

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.81
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.81
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.81
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.81
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.81
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.81
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.81
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		19.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.95	23.7		1
07914	Boron	7440-42-8	1.05	U	1.05	5.91		1
01650	Calcium	7440-70-2	2,310		7.25	23.7		1
01654	Iron	7439-89-6	22,000		5.57	23.7		1
01656	Lithium	7439-93-2	26.1		0.26	2.4		1
01657	Magnesium	7439-95-4	5,220		3.00	11.8		1
06958	Manganese	7439-96-5	307		0.0922	0.591		1
10145	Phosphorus	7723-14-0	356		0.662	11.8		1
01662	Potassium	7440-09-7	2,640		21.3	59.1		1
01667	Sodium	7440-23-5	81.5	J	44.1	118		1
07968	Strontium	7440-24-6	17.7		0.0733	0.591		1
06969	Tin	7440-31-5	2.52	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,180		0.449	1.18		1
10146	Zirconium	7440-67-7	1.03	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.86		0.0919	0.460		2
06126	Barium	7440-39-3	121		0.124	0.460		2
06127	Beryllium	7440-41-7	0.710		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.140		0.0460	0.115		2
06131	Chromium	7440-47-3	21.9		0.138	0.460		2

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	7.16	0.0230	0.115		2
06133	Copper	7440-50-8	11.2	0.0758	0.460		2
06135	Lead	7439-92-1	5.39	0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.650	0.0574	0.115		2
06139	Nickel	7440-02-0	15.6	0.115	0.460		2
06141	Selenium	7782-49-2	0.182 J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0596 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.307	0.0345	0.115		2
06148	Vanadium	7440-62-2	42.6	0.0253	0.115		2
06149	Zinc	7440-66-6	65.5	0.643	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103 J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	460	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.53	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-171-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 18:51	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 21:52	Sara E Johnson	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 12:52	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 14:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:05	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 18:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:48	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262837
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13116 SDG#: DE131-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 21:51	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 02:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104A	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404A	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,200		5.79	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.76		1
01650	Calcium	7440-70-2	3,630		7.06	23.0		1
01654	Iron	7439-89-6	23,400		5.42	23.0		1
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	4,690		2.92	11.5		1
06958	Manganese	7439-96-5	213		0.0898	0.576		1
10145	Phosphorus	7723-14-0	148		0.645	11.5		1
01662	Potassium	7440-09-7	1,830		20.7	57.6		1
01667	Sodium	7440-23-5	113	J	42.9	115		1
07968	Strontium	7440-24-6	25.4		0.0714	0.576		1
06969	Tin	7440-31-5	3.04	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,190		0.437	1.15		1
10146	Zirconium	7440-67-7	1.94	J	0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0699	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0912	0.456		2
06126	Barium	7440-39-3	102		0.123	0.456		2
06127	Beryllium	7440-41-7	0.930		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0612	J	0.0456	0.114		2
06131	Chromium	7440-47-3	21.1		0.137	0.456		2

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SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13117 SDG#: DE131-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	5.67	0.0228	0.114		2
06133	Copper	7440-50-8	7.40	0.0752	0.456		2
06135	Lead	7439-92-1	7.01	0.0119	0.228		2
06138	Molybdenum	7439-98-7	1.19	0.0570	0.114		2
06139	Nickel	7440-02-0	13.5	0.114	0.456		2
06141	Selenium	7782-49-2	0.0674 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0569 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.274	0.0342	0.114		2
06148	Vanadium	7440-62-2	40.6	0.0251	0.114		2
06149	Zinc	7440-66-6	50.1	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0188 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	332	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.12	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-126-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
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Suite 210
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13117 SDG#: DE131-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 19:14	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 22:12	Sara E Johnson	20.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:22	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 14:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 15:18	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:49	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262838
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13117 SDG#: DE131-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 16:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 22:13	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11126243201A	05/10/2011 02:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104B	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404B	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.93
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.93
06192	Methylene Chloride	75-09-2	0.75	J	0.25	4.2		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.93

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: 4-Bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.71	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.54	22.0		1
07914	Boron	7440-42-8	0.980	U	0.980	5.51		1
01650	Calcium	7440-70-2	2,230		6.75	22.0		1
01654	Iron	7439-89-6	19,800		5.19	22.0		1
01656	Lithium	7439-93-2	22.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,510		2.80	11.0		1
06958	Manganese	7439-96-5	295		0.0859	0.551		1
10145	Phosphorus	7723-14-0	465		0.617	11.0		1
01662	Potassium	7440-09-7	3,680		19.8	55.1		1
01667	Sodium	7440-23-5	62.0	J	41.1	110		1
07968	Strontium	7440-24-6	15.8		0.0683	0.551		1
06969	Tin	7440-31-5	2.41	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,020		0.419	1.10		1
10146	Zirconium	7440-67-7	1.22	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.34		0.0881	0.441		2
06126	Barium	7440-39-3	144		0.119	0.441		2
06127	Beryllium	7440-41-7	0.736		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.132		0.0441	0.110		2
06131	Chromium	7440-47-3	24.2		0.132	0.441		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	8.81		0.0220	0.110		2
06133	Copper	7440-50-8	13.4		0.0727	0.441		2
06135	Lead	7439-92-1	8.28		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.624		0.0551	0.110		2
06139	Nickel	7440-02-0	16.7		0.110	0.441		2
06141	Selenium	7782-49-2	0.133	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0420	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.348		0.0330	0.110		2
06148	Vanadium	7440-62-2	45.4		0.0242	0.110		2
06149	Zinc	7440-66-6	96.3		0.617	3.30		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0035	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	341		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-127-SA5A-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111111AA	04/21/2011 19:36	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111102AA	04/20/2011 22:32	Sara E Johnson	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111024175	04/20/2011 20:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111024175	04/20/2011 20:27	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11115SLB026	04/28/2011 15:05	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLA026	05/02/2011 15:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLA026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11115SLB026	04/26/2011 09:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111150016A	04/28/2011 04:42	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111150016A	04/26/2011 03:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	111165708002	05/02/2011 19:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111165708002	04/30/2011 17:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111161026002D	04/27/2011 12:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111161026002A	04/27/2011 15:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111161026002C	04/27/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111161026002B	04/27/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111161026002A	04/27/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711002	04/27/2011 05:50	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262839
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13118 SDG#: DE131-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708002	04/26/2011 13:19	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111161026002	04/26/2011 13:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711002	04/26/2011 14:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11122621201B	05/03/2011 17:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11123495201B	05/05/2011 22:35	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11126243201A	05/10/2011 02:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11122621201B	05/02/2011 13:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11123495201B	05/04/2011 02:15	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11111182104B	04/21/2011 13:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11111039404B	04/21/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11126243201A	05/06/2011 20:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-041911 Water
SSFL Area IV Collocated Soil Sampling
TB-041911

LLI Sample # WW 6262840
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13119 SDG#: DE131-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041911 Water
SSFL Area IV Collocated Soil Sampling
TB-041911

LLI Sample # WW 6262840
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 08:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13119 SDG#: DE131-19TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111121AA	04/22/2011 13:59	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111101AA	04/20/2011 11:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111101AA	04/20/2011 11:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111121AA	04/22/2011 13:59	Nicholas R Rossi	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB06-SA8N-SS-041911 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.501	U	0.501	1.00		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	58		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1

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Sample Description: EB06-SA8N-SS-041911 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.30	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.057	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.13	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.031	U	0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.25	J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1

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EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	15	J	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097	U	0.097	0.49		1
10227	Aroclor 5442	12642-23-8	0.097	U	0.097	0.49		1
10227	Aroclor 5460	11126-42-4	0.097	U	0.097	0.49		1
10227	PCB-1016	12674-11-2	0.097	U	0.097	0.49		1
10227	PCB-1221	11104-28-2	0.097	U	0.097	0.49		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.49		1
10227	PCB-1242	53469-21-9	0.097	U	0.097	0.49		1
10227	PCB-1248	12672-29-6	0.097	U	0.097	0.49		1
10227	PCB-1254	11097-69-1	0.097	U	0.097	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1

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Sample Description: EB06-SA8N-SS-041911 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0211	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0796	J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00045	J	0.00038	0.0020		1

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Analysis Report

Sample Description: EB06-SA8N-SS-041911 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

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Chantilly VA 20151

13120 SDG#: DE131-20EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 14:45	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011 14:25	Matthew S Woods	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11110WAE026	04/22/2011 03:12	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011 09:00	Olivia Arosemena	1

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Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

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13120 SDG#: DE131-20EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	11110WAE026	04/20/2011 22:30	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111160001A	05/01/2011 22:37	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 20:58	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011 22:54	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011 10:45	Denise L Trimby	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111160001A	04/26/2011 13:50	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 08:55	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/28/2011 02:45	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111110007A	04/21/2011 20:30	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 02:19	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011 16:38	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011 19:42	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011 12:55	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:55	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:55	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262841
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13120 SDG#: DE131-20EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:55	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111115713003	04/21/2011 19:28	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111115713003	04/21/2011 14:35	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11110196603C	04/21/2011 11:19	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11110196603C	04/21/2011 11:19	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 05:58	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11110196401A	04/20/2011 10:40	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11122117101A	05/03/2011 09:23	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11122117101A	05/02/2011 15:30	Carolyn M Mastropietro	1
00200	18b pH by 9040B	SW-846 9040B	1	11110020002A	04/20/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: EB14-SA5A-SB-041911 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.808	J	0.528	1.06		1
	The recovery of the target compound was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: EB14-SA5A-SB-041911 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.62		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11110WAF026	04/21/2011 15:02	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11110WAF026	04/21/2011 02:35	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB14-SA5A-SB-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5A-SB-041911

LLI Sample # WW 6262842
LLI Group # 1242943
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:00

Submitted: 04/20/2011 09:15
Reported: 05/20/2011 10:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13121 SDG#: DE131-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11116B20A	04/27/2011 00:45	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11116B20A	04/27/2011 00:45	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111160001A	05/02/2011 00:44	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111110003A	04/22/2011 21:08	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111110003A	04/21/2011 14:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111160001A	04/26/2011 13:50	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111100043A	04/29/2011 09:20	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111160038A	04/28/2011 03:00	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111110007A	04/21/2011 20:47	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111100042A	04/24/2011 03:04	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111100043A	04/21/2011 07:00	Joseph S Feister	1
10304	Terphenyls water prep	SW-846 3510C	1	111100042A	04/21/2011 07:00	Joseph S Feister	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11110196603C	04/21/2011 11:33	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11122117101A	05/03/2011 09:24	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11122117101A	05/02/2011 15:30	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111111AA	Sample number(s): 6262837-6262839									
Acetone	6.7	U	6.7	8.0	ug/kg	157	152	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	104	80-120	1	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	101	79-120	0	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	120	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	88	90	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	87	83	32-162	5	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	119	121	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	107	105	72-120	2	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	109	108	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	97	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94	92	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99	98	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	88	82	37-154	7	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	63	64	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	99	99	80-120	0	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	93	92	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	78-120	2	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	101	100	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	91	86	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	92	94	58-120	3	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	91	92	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	94	97	80-120	4	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	98	79-120	0	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	0	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	101	102	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	93	95	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112	110	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	102	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	101	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99	99	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	85	84	72-123	1	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98	97	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	88	91	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85	87	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	99	98	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	118	114	61-126	3	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	105	103	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98	97	57-120	2	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108	113	45-155	5	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99	97	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105	103	75-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	90	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92	98	61-134	6	30
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	106	107	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113	107	77-120	5	30
Styrene	0.10	U	0.10	4.0	ug/kg	93	92	76-120	1	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93	93	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	105	108	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	97	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	102	100	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	99	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	98	96	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	100	97	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101	104	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	106	102	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	91	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	97	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	93	93	80-120	0	30
Batch number: E111101AA	Sample number(s): 6262840									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	115	120	80-123	4	30
Batch number: E111102AA	Sample number(s): 6262837-6262839									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	97	109	70-130	11	30
Batch number: Y111121AA	Sample number(s): 6262840									
Acetone	6	U	6.	20	ug/l	119	118	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	96	94	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	102	102	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	113	111	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	109	106	80-120	3	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	102	100	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	108	106	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	92	92	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	126*	122	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	88	86	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	113	111	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	92	91	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	84	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	93	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	103	100	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	102	101	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	101	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	102	98	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	95	79-120	2	30

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Quality Control Summary

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1,2-Dichloroethane	1	U	1.	5	ug/l	128	126	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	101	95	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	89	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	93	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	105	101	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	89	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	109	104	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	120	118	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	106	106	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	92	92	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	104	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	98	98	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	98	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	94	92	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	96	95	80-120	1	30
Styrene	1	U	1.	5	ug/l	94	92	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	85	86	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	109	105	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	92	90	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	103	103	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	96	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	100	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	108	103	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	130*	125	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	97	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	99	97	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	86	84	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
Batch number: 11110WAE026	Sample number(s): 6262841									
Acenaphthene	0.010	U	0.010	0.050	ug/l	103	104	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	99	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	97	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	101	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	100	102	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	115	114	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	97	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	99	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	86	84	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	97	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	99	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	78	77	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	65	61	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	116	121	57-154	4	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	101	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	103	104	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	101	101	69-124	0	30

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	99	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	95	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	64	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	115	126	57-145	9	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	106	69-118	2	30
Batch number: 11110WAF026	Sample number(s): 6262841-6262842									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	60*	77	70-130	25	30
Batch number: 11112WAJ026	Sample number(s): 6262841									
Aniline	1	U	1.	5	ug/l	80	77	49-101	3	30
Benzidine	20	U	20.	60	ug/l	84	79	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	25	33	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	79	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	93	82-117	1	30
Carbazole	1	U	1.	5	ug/l	100	102	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	92	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	77	73	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	99	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	99	97	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	85	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	95	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	74	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	74	67	50-119	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	71	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	72	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	98	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	98	98	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	106	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	96	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	66	59	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	58	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	63	55	52-113	13	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	81	81	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	84	85	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	101	98	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	99	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	79	79	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	100	100	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	98	98	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	51	52	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	92	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	102	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	84	53-110	1	30
Phenol	1	U	1.	5	ug/l	39	41	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	79	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	1	30

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2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	81-113	1	30
Batch number: 11115SLB026	Sample number(s): 6262819-6262832,6262834-6262839									
Acenaphthene	33	U	33.	170	ug/kg	85		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	86		75-122		
Aniline	170 U		170.	500	ug/kg	77		34-94		
Anthracene	33	U	33.	170	ug/kg	84		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	88		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	86		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	100		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	73*		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	100		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	81		79-112		
Carbazole	33	U	33.	170	ug/kg	85		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	68		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	75		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	74		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	80		79-110		
Chrysene	33	U	33.	170	ug/kg	89		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	88		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	84		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	76		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	77		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	89		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	86		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	85		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	65		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	49		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	80		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	97		75-117		
Fluoranthene	33	U	33.	170	ug/kg	83		78-116		
Fluorene	33	U	33.	170	ug/kg	84		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	82		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	73		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	61		46-115		

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Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	33	U	33.	170	ug/kg	74		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	91		64-119		
Isophorone	33	U	33.	170	ug/kg	89		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	89		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	82		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	89		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	86		66-117		
Naphthalene	33	U	33.	170	ug/kg	83		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	93		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	86		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	79		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	82		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	97		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		
Phenanthrene	33	U	33.	170	ug/kg	81		77-113		
Phenol	33	U	33.	170	ug/kg	90		58-112		
Pyrene	33	U	33.	170	ug/kg	94		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	82		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	85		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11117SLA026	Sample number(s): 6262819-6262832,6262834-6262839									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	118		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	129		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	111		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	128		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	127		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	96		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	119		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		56-121		
Batch number: 11117SLE026	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
N-Nitrosodimethylamine	34.7		16.7	33.3	ng/kg	78		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116B20A	Sample number(s): 6262842									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111160001A	Sample number(s): 6262841-6262842									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	92	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	99	100	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	90	91	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	80	85	72-141	6	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	94	94	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110*	76-109	10	30
Batch number: 111160004A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111110003A	Sample number(s): 6262841-6262842									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111160002A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	105		80-126		
Batch number: 111110024A	Sample number(s): 6262841									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	96*	35-84	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.10	U	0.10	0.50	ug/l	92	90	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	114	112	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111150016A	Sample number(s): 6262819-6262832,6262834-6262839									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	100	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	110		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111100043A	Sample number(s): 6262841-6262842									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	96	60-120	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	101	104	60-120	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	100	60-120	26	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	100	60-120	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	70	60-120	3	30
Batch number: 111170029A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 111110007A	Sample number(s): 6262841-6262842									
Diethylene glycol	10	U	10.	100	mg/l	100	120	78-126	18	20
Ethylene glycol	10	U	10.	100	mg/l	90	110	80-124	20	20
Propylene glycol	10	U	10.	100	mg/l	95	110	80-120	15	20
Batch number: 111110008A	Sample number(s): 6262819-6262821,6262823,6262828-6262829									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111120005A	Sample number(s): 6262830-6262832,6262834-6262836									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	113		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	112		75-125		
Batch number: 111150003A	Sample number(s): 6262822									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		

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Client Name: CDM Federal Programs Corp. Group Number: 1242943
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111150025A	Sample number(s): 6262819-6262823,6262828-6262832								
Ethanol	100 U	100.	500	ug/kg	99		71-129		
Isopropanol	100 U	100.	500	ug/kg	97		75-125		
Methanol	100 U	100.	500	ug/kg	94		68-129		
Batch number: 111150026A	Sample number(s): 6262834-6262836								
Ethanol	100 U	100.	500	ug/kg	101		71-129		
Isopropanol	100 U	100.	500	ug/kg	99		75-125		
Methanol	100 U	100.	500	ug/kg	102		68-129		
Batch number: 111160038A	Sample number(s): 6262841-6262842								
Ethanol	200 U	200.	1,000	ug/l	104		66-132		
Isopropanol	200 U	200.	1,000	ug/l	104		75-125		
Methanol	200 U	200.	1,000	ug/l	108		71-140		
Batch number: 111100042A	Sample number(s): 6262841-6262842								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	86	88	75-125	3	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	86	89	75-125	4	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	84	87	75-125	3	20
Batch number: 111220022A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111115713003	Sample number(s): 6262841								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	95	94	80-120	2	20
Batch number: 111161026002A	Sample number(s): 6262819-6262839								
Antimony	0.0577 U	0.0577	0.192	mg/kg	51		27-181		
Arsenic	0.0769 U	0.0769	0.385	mg/kg	96		83-113		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	96		86-111		
Cadmium	0.0385 U	0.0385	0.0962	mg/kg	102		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	102		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	103		82-118		
Copper	0.107 J	0.0635	0.385	mg/kg	99		83-110		
Lead	0.0100 U	0.0100	0.192	mg/kg	92		83-110		
Nickel	0.0962 U	0.0962	0.385	mg/kg	98		81-110		
Silver	0.0115 U	0.0115	0.0962	mg/kg	97		81-111		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	94		83-110		
Vanadium	0.0888 J	0.0212	0.0962	mg/kg	95		84-116		
Zinc	0.608 J	0.538	2.88	mg/kg	100		81-112		
Batch number: 111161026002B	Sample number(s): 6262819-6262839								
Selenium	0.0385 U	0.0385	0.385	mg/kg	101		83-111		
Batch number: 111161026002C	Sample number(s): 6262819-6262839								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	104		78-122		

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111161026002D	Sample number(s): 6262819-6262839								
Barium	0.104 U	0.104	0.385	mg/kg	98		81-111		
Batch number: 111165708002	Sample number(s): 6262819-6262839								
Aluminum	4.93 U	4.93	19.6	mg/kg	87		61-110		
Boron	0.873 U	0.873	4.90	mg/kg	93		78-110		
Calcium	6.24 J	6.01	19.6	mg/kg	99		88-110		
Iron	4.62 U	4.62	19.6	mg/kg	82		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.49 U	2.49	9.80	mg/kg	93		82-110		
Manganese	0.0765 U	0.0765	0.490	mg/kg	99		89-112		
Phosphorus	1.04 J	0.549	9.80	mg/kg	102		80-120		
Potassium	17.6 U	17.6	49.0	mg/kg	94		78-110		
Sodium	36.6 U	36.6	98.0	mg/kg	97		87-110		
Strontium	0.0608 U	0.0608	0.490	mg/kg	100		86-110		
Tin	1.61 J	0.980	9.80	mg/kg	91		90-114		
Titanium	0.373 U	0.373	0.980	mg/kg	83		80-120		
Zirconium	0.824 U	0.824	4.90	mg/kg	99		80-120		
Batch number: 111165711002	Sample number(s): 6262819-6262839								
Mercury	0.0029 U	0.0029	0.0999	mg/kg	94		88-123		
Batch number: 111171848001	Sample number(s): 6262841								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	98	90-112	2	20
Boron	0.0156 J	0.0138	0.0500	mg/l	100	98	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	106	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	108	106	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	104	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	105	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	103	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	103	80-120	1	20
Batch number: 111176050001A	Sample number(s): 6262841								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	101	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	96	99	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	103	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	100	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	109	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	102	87-113	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	105	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	95	103	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	105	90-113	6	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	98	105	90-115	6	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	90	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	107	89-116	11	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	106	90-116	7	20
Batch number: 111176050001B	Sample number(s): 6262841								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	103	85-114	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111176050001C	Sample number(s): 6262841								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	105	89-115	6	20
Batch number: 111176050001D	Sample number(s): 6262841								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 11110196401A	Sample number(s): 6262841								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	102	103	90-110	1	20
Batch number: 11110196603C	Sample number(s): 6262841-6262842								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	103	102	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	100	99	90-110	2	20
Batch number: 11115196701A	Sample number(s): 6262841								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11118102201A	Sample number(s): 6262819-6262823,6262828-6262831,6262833-6262835								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11118102201B	Sample number(s): 6262836								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11122117101A	Sample number(s): 6262841-6262842								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	105	105	90-110	0	20
Batch number: 11122621201A	Sample number(s): 6262819-6262828								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11122621201B	Sample number(s): 6262829-6262831,6262833-6262839								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11123495201A	Sample number(s): 6262819-6262828								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11123495201B	Sample number(s): 6262829-6262831,6262833-6262839								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11126243201A	Sample number(s): 6262819-6262831,6262833-6262839								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11110020002A	Sample number(s): 6262841								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11111039403B	Sample number(s): 6262819-6262825								
18a pH by 9045C					100		95-105		
Batch number: 11111039404A	Sample number(s): 6262826-6262830,6262833-6262837								
18a pH by 9045C					100		95-105		
Batch number: 11111039404B	Sample number(s): 6262838-6262839								
18a pH by 9045C					100		95-105		
Batch number: 11111182103B	Sample number(s): 6262819-6262825								
32a OR Potential					99		98-102		

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Quality Control Summary

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Reported: 05/20/11 at 10:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111182104A	Sample number(s): 6262826-6262830,6262833-6262837								
32a OR Potential					99		98-102		
Batch number: 11111182104B	Sample number(s): 6262838-6262839								
32a OR Potential					99		98-102		
Batch number: 11119162401A	Sample number(s): 6262824-6262827,6262837-6262839								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262819-6262823,6262828-6262836								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111111AA	Sample number(s): 6262837-6262839 UNSPK: P264845								
Acetone	127	122	15-210	7	30				
Benzene	103	107	55-143	0	30				
Bromobenzene	86	97	43-139	8	30				
Bromochloromethane	109	119	60-137	5	30				
Bromodichloromethane	86	91	53-136	3	30				
Bromoform	76	77	38-124	2	30				
Bromomethane	82	87	42-168	3	30				
2-Butanone	94	92	37-163	5	30				
n-Butylbenzene	86	105	30-146	17	30				
sec-Butylbenzene	91	109	33-157	15	30				
tert-Butylbenzene	83	98	41-152	13	30				
Carbon Tetrachloride	95	98	45-153	1	30				
Chlorobenzene	89	97	49-135	5	30				
Chloroethane	80	89	39-152	7	30				
2-Chloroethyl Vinyl Ether	48	50	32-139	0	30				
Chloroform	96	101	61-142	0	30				
Chloromethane	100	100	51-163	3	30				
2-Chlorotoluene	86	99	42-146	10	30				
4-Chlorotoluene	84	98	39-145	12	30				
1,2-Dibromo-3-chloropropane	70	68	30-139	6	30				
Dibromochloromethane	80	84	51-128	2	30				
1,2-Dibromoethane	85	87	54-129	1	30				
Dibromomethane	85	88	57-130	0	30				
1,2-Dichlorobenzene	80	92	36-133	10	30				
1,3-Dichlorobenzene	82	95	34-134	11	30				
1,4-Dichlorobenzene	82	94	35-136	10	30				
Dichlorodifluoromethane	87	82	26-151	10	30				
1,1-Dichloroethane	100	104	63-142	1	30				
1,2-Dichloroethane	87	90	68-131	1	30				
1,1-Dichloroethene	119	120	61-149	3	30				
cis-1,2-Dichloroethene	95	100	60-136	1	30				
trans-1,2-Dichloroethene	102	105	59-142	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	96	102	62-135	3	30				
1,3-Dichloropropane	87	90	58-129	0	30				
2,2-Dichloropropane	85	88	53-147	1	30				
1,1-Dichloropropene	99	103	54-145	1	30				
cis-1,3-Dichloropropene	80	89	51-131	7	30				
trans-1,3-Dichloropropene	73	79	49-129	4	30				
Ethylbenzene	88	98	44-141	7	30				
Freon 113	131	127	56-156	7	30				
Hexachlorobutadiene	77	98	10-155	19	30				
2-Hexanone	81	80	32-160	5	30				
Isopropylbenzene	86	98	38-144	9	30				
p-Isopropyltoluene	86	104	29-152	15	30				
Methyl Tertiary Butyl Ether	77	79	55-129	1	30				
4-Methyl-2-pentanone	79	76	46-139	8	30				
Methylene Chloride	103	104	61-141	3	30				
n-Propylbenzene	95	111	39-157	11	30				
Styrene	81	91	35-134	8	30				
1,1,1,2-Tetrachloroethane	83	90	52-130	4	30				
1,1,2,2-Tetrachloroethane	89	88	40-152	5	30				
Tetrachloroethene	91	99	42-149	4	30				
Toluene	94	101	50-146	3	30				
1,2,3-Trichlorobenzene	73	85	10-140	12	30				
1,2,4-Trichlorobenzene	67	79	10-136	13	30				
1,1,1-Trichloroethane	91	94	64-142	0	30				
1,1,2-Trichloroethane	88	91	54-139	1	30				
Trichloroethene	95	100	53-144	2	30				
Trichlorofluoromethane	109	109	47-163	4	30				
1,2,3-Trichloropropane	85	85	45-154	4	30				
1,2,4-Trimethylbenzene	84	99	37-149	13	30				
1,3,5-Trimethylbenzene	87	102	38-150	12	30				
Vinyl Chloride	100	102	50-154	2	30				
m+p-Xylene	87	96	44-137	7	30				
o-Xylene	81	91	42-137	8	30				
Batch number: 11115SLB026	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
Acenaphthene	98	99	75-115	1	30				
Acenaphthylene	96	103	81-110	7	30				
Aniline	69	66	35-95	4	30				
Anthracene	96	99	75-115	3	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	107	103	65-122	5	30				
Benzo(a)pyrene	100	107	57-126	6	30				
Benzo(b)fluoranthene	96	97	59-125	1	30				
Benzo(g,h,i)perylene	83	93	59-127	10	30				
Benzo(k)fluoranthene	97	101	56-132	3	30				
Benzoic acid	123	110	10-173	11	30				
Benzyl alcohol	96	102	67-115	6	30				
4-Bromophenyl-phenylether	93	98	67-129	5	30				
Butylbenzylphthalate	121	121	73-134	1	30				
Di-n-butylphthalate	96	99	67-123	2	30				
Carbazole	95	98	64-120	2	30				
4-Chloro-3-methylphenol	114*	111*	76-110	4	30				
4-Chloroaniline	65	64	23-95	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	94	93	75-104	1	30				
bis(2-Chloroethyl)ether	94	93	60-116	2	30				
bis(2-Chloroisopropyl)ether	81	85	55-142	4	30				
2-Chloronaphthalene	69	90	50-141	27	30				
2-Chlorophenol	95	108	73-121	12	30				
4-Chlorophenyl-phenylether	95	100	80-109	4	30				
Chrysene	108	101	62-128	7	30				
Dibenz(a,h)anthracene	92	96	65-125	5	30				
Dibenzofuran	95	102	71-112	7	30				
1,2-Dichlorobenzene	89	93	66-108	5	30				
1,3-Dichlorobenzene	84	87	63-109	4	30				
1,4-Dichlorobenzene	85	88	70-100	4	30				
3,3'-Dichlorobenzidine	81	67	16-119	19	30				
2,4-Dichlorophenol	105	106	78-117	0	30				
Diethylphthalate	100	103	66-118	3	30				
2,4-Dimethylphenol	100	100	78-110	1	30				
3,5-Dimethylphenol	111	113	70-130	2	30				
Dimethylphthalate	100	101	64-118	0	30				
4,6-Dinitro-2-methylphenol	53	50	24-116	6	30				
2,4-Dinitrophenol	41	39	20-143	4	30				
2,4-Dinitrotoluene	102	110	73-113	8	30				
2,6-Dinitrotoluene	103	108	69-123	5	30				
1,2-Diphenylhydrazine	99	103	71-129	3	30				
bis(2-Ethylhexyl)phthalate	122	117	63-122	5	30				
Fluoranthene	89	93	73-112	4	30				
Fluorene	99	104	77-111	4	30				
Hexachlorobenzene	93	100	77-114	7	30				
Hexachlorobutadiene	91	87	62-120	5	30				
Hexachlorocyclopentadiene	42	38	10-153	10	30				
Hexachloroethane	85	79	57-109	7	30				
Indeno(1,2,3-cd)pyrene	91	95	61-126	5	30				
Isophorone	99	97	73-102	2	30				
1-Methylnaphthalene	103	102	73-112	1	30				
2-Methylnaphthalene	94	94	76-114	0	30				
2-Methylphenol	98	104	75-111	6	30				
4-Methylphenol	102	105	71-111	3	30				
Naphthalene	96	93	72-116	3	30				
2-Nitroaniline	114	119	67-125	4	30				
3-Nitroaniline	106	111	59-122	3	30				
4-Nitroaniline	91	92	52-112	0	30				
Nitrobenzene	96	96	72-106	0	30				
2-Nitrophenol	97	102	74-115	4	30				
4-Nitrophenol	96	98	54-113	1	30				
N-Nitroso-di-n-propylamine	94	98	60-116	4	30				
N-Nitrosodimethylamine	79	89	47-116	12	30				
N-Nitrosodiphenylamine	97	99	86-145	2	30				
Di-n-octylphthalate	113	115	56-126	1	30				
Pentachlorophenol	37	54	28-127	38*	30				
Phenanthrene	95	95	65-125	0	30				
Phenol	99	100	58-126	1	30				
Pyrene	108	101	74-126	6	30				
1,2,4-Trichlorobenzene	92	92	72-115	0	30				
2,4,5-Trichlorophenol	100	102	78-109	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	100	107	77-115	6	30				
Batch number: 11117SLA026	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
Acenaphthene	99	97	63-105	3	30				
Acenaphthylene	95	95	67-114	0	30				
Anthracene	99	96	60-122	3	30				
Benzo(a)anthracene	102	99	59-128	3	30				
Benzo(a)pyrene	114	110	45-138	3	30				
Benzo(b)fluoranthene	132	128	43-155	4	30				
Benzo(g,h,i)perylene	60	58	33-141	2	30				
Benzo(k)fluoranthene	115	114	42-144	0	30				
Butylbenzylphthalate	116	111	57-173	4	30				
Di-n-butylphthalate	104	102	65-148	2	30				
Chrysene	98	94	48-134	4	30				
Dibenz(a,h)anthracene	77	78	22-133	1	30				
Diethylphthalate	84	83	70-136	1	30				
Dimethylphthalate	99	98	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	123	116	39-167	6	30				
Fluoranthene	106	100	26-166	5	30				
Fluorene	101	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	76	73	21-143	5	30				
1-Methylnaphthalene	97	96	72-123	1	30				
2-Methylnaphthalene	87	86	64-103	2	30				
Naphthalene	95	92	61-102	3	30				
N-Nitrosodimethylamine	97	97	48-113	0	30				
Di-n-octylphthalate	159	152	40-192	4	30				
Phenanthrene	96	93	12-165	3	30				
Pyrene	93	88	15-153	5	30				
Batch number: 11117SLE026	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
N-Nitrosodimethylamine	55*	56*	70-130	2	30				
Batch number: 111160004A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111160002A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
25a Formaldehyde 8315A	97	103	80-120	7	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111150016A	Sample number(s): 6262819-6262832,6262834-6262839 UNSPK: 6262830								
PCB-1016	92	102	29-146	11	50				
PCB-1260	111	128	39-149	14	50				
Batch number: 111170029A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
EFH (C12-C14)	93	93	49-123	0	20				
EFH (C15-C20)	103	115	49-123	7	20				
EFH (C21-C30)	147*	157*	49-123	2	20				
EFH (C30 - C40)	159 (2)	228 (2)	49-123	8	20				
EFH (C8-C11)	73	70	49-123	5	20				
Batch number: 111110008A	Sample number(s): 6262819-6262821,6262823,6262828-6262829 UNSPK: 6262819								
Diethylene glycol	54*	82	59-109	42*	20				
Ethylene glycol	76	87	63-107	13	20				
Propylene glycol	84	92	63-107	9	20				
Batch number: 111120005A	Sample number(s): 6262830-6262832,6262834-6262836 UNSPK: 6262830								
Diethylene glycol	91	98	59-109	7	20				
Ethylene glycol	82	85	63-107	4	20				
Propylene glycol	90	89	63-107	1	20				
Batch number: 111150003A	Sample number(s): 6262822 UNSPK: P264845								
Diethylene glycol	82	26*	59-109	104*	20				
Ethylene glycol	84	64	63-107	27*	20				
Propylene glycol	82	63	63-107	26*	20				
Batch number: 111150025A	Sample number(s): 6262819-6262823,6262828-6262832 UNSPK: 6262830								
Ethanol	82	78	48-130	4	20				
Isopropanol	82	81	12-149	2	20				
Methanol	82	80	43-138	2	20				
Batch number: 111150026A	Sample number(s): 6262834-6262836 UNSPK: P264819								
Ethanol	73	68	48-130	7	20				
Isopropanol	79	78	12-149	2	20				
Methanol	72	70	43-138	3	20				
Batch number: 111160038A	Sample number(s): 6262841-6262842 UNSPK: P262150								
Ethanol	96	100	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	96	96	52-159	0	20				
Batch number: 111220022A	Sample number(s): 6262819-6262823,6262828-6262832,6262834-6262836 UNSPK: 6262830								
m-Terphenyl	83	84	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	92	94	75-125	2	20				
Batch number: 111161026002A	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Antimony	36*	44*	75-125	23*	20	0.0600 U	0.0668 J	200* (1)	20
Arsenic	105	114	75-125	3	20	5.43	5.58	3	20
Beryllium	113	119	75-125	4	20	0.577	0.497	15	20
Cadmium	115	128*	75-125	11	20	0.138	0.175	24* (1)	20
Chromium	108	105	75-125	0	20	16.7	14.9	11	20
Cobalt	123	127*	75-125	5	20	6.34	5.36	17	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	116	126*	75-125	6	20	9.31	8.19	13	20
Lead	92 (2)	102	75-125	2	20	11.8	10.6	11	20
Nickel	115	127*	75-125	6	20	12.1	10.4	15	20
Silver	123	125	75-125	3	20	0.0236 J	0.0320 J	30* (1)	20
Thallium	111	112	75-125	1	20	0.275	0.285	3 (1)	20
Vanadium	93	102	75-125	3	20	33.9	30.3	11	20
Zinc	71 (2)	92 (2)	75-125	3	20	72.8	63.1	14	20
Batch number: 111161026002B	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Selenium	113	114	75-125	2	20	0.112 J	0.116 J	3 (1)	20
Batch number: 111161026002C	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Molybdenum	114	118	75-125	5	20	0.461	0.471	2 (1)	20
Batch number: 111161026002D	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Barium	77 (2)	510 (2)	75-125	32*	20	107	91.9	15	20
Batch number: 111165708002	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Aluminum	1033 (2)	1129 (2)	75-125	1	20	11,500	11,600	1	20
Boron	99	99	84-115	1	20	1.32 J	0.864 U	200* (1)	20
Calcium	148 (2)	162 (2)	75-125	2	20	2,000	1,950	2	20
Iron	712 (2)	974 (2)	75-125	1	20	17,100	17,400	2	20
Lithium	99	100	82-114	0	20	23.4	23.5	0	20
Magnesium	142 (2)	173 (2)	75-125	1	20	3,730	3,720	0	20
Manganese	103 (2)	110 (2)	75-125	1	20	284	287	1	20
Phosphorus	86 (2)	85 (2)	75-125	0	20	396	389	2	20
Potassium	115	120	75-125	1	20	3,240	3,210	1	20
Sodium	100	101	75-125	0	20	64.1 J	61.9 J	4 (1)	20
Strontium	102	102	75-115	1	20	13.5	13.1	3	20
Tin	86	87	80-110	0	20	2.19 J	2.32 J	6 (1)	20
Titanium	200 (2)	238 (2)	75-125	3	20	993	965	3	20
Zirconium	90	91	75-125	0	20	1.69 J	2.21 J	27* (1)	20
Batch number: 111165711002	Sample number(s): 6262819-6262839 UNSPK: 6262830 BKG: 6262830								
Mercury	94	91	65-135	3	20	0.0166 J	0.0177 J	6 (1)	20
Batch number: 11118102201A	Sample number(s): 6262819-6262823,6262828-6262831,6262833-6262835 UNSPK: 6262830 BKG: 6262830								
17a Cyanide by 9012B	114		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11118102201B	Sample number(s): 6262836 UNSPK: P264819 BKG: P264819								
17a Cyanide by 9012B	103		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11122621201A	Sample number(s): 6262819-6262828 UNSPK: 6262819 BKG: 6262819								
11a Anions by 300.0 - Fluoride	58*		80-120			2.5	1.1	74* (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			25.9	25.6	1	20
Batch number: 11122621201B	Sample number(s): 6262829-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830								
11a Anions by 300.0 - Fluoride	49*		80-120			0.80 U	0.95 J	200* (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			3.2	3.0	6 (1)	20
Batch number: 11123495201A	Sample number(s): 6262819-6262828 UNSPK: 6262819 BKG: 6262819								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	94		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11123495201B	Sample number(s): 6262829-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830										
7a Perchlorate EPA 314.0	93		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11126243201A	Sample number(s): 6262819-6262831,6262833-6262839 UNSPK: 6262830 BKG: 6262830										
3a Cr VI by EPA 7199	94		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11111039403B	Sample number(s): 6262819-6262825 BKG: P261702										
18a pH by 9045C						6.16		6.19		0	1
Batch number: 11111039404A	Sample number(s): 6262826-6262830,6262833-6262837 BKG: 6262830										
18a pH by 9045C						5.92		5.92		0	1
Batch number: 11111039404B	Sample number(s): 6262838-6262839 BKG: 6262838										
18a pH by 9045C						8.12		8.13		0	1
Batch number: 11111182103B	Sample number(s): 6262819-6262825 BKG: P261702										
32a OR Potential						373		379		1	6
Batch number: 11111182104A	Sample number(s): 6262826-6262830,6262833-6262837 BKG: 6262830										
32a OR Potential						449		451		0	6
Batch number: 11111182104B	Sample number(s): 6262838-6262839 BKG: 6262838										
32a OR Potential						332		333		0	6
Batch number: 11119162401A	Sample number(s): 6262824-6262827,6262837-6262839 BKG: 6262838										
Moisture Content by 160.3						14.0		14.0		0	20
Batch number: 11124162401B	Sample number(s): 6262819-6262823,6262828-6262836 BKG: 6262830										
28a Moisture Content by 160.3						8.2		8.3		1	20
Moisture Content by 160.3						8.2		8.3		1	20
Moisture Content by 160.3						8.2		8.3		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6262837	98	96	101	88
6262838	99	99	100	88
6262839	100	101	100	89
Blank	101	104	100	89
LCS	98	98	104	97
LCSD	98	99	104	97
MS	99	103	103	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

MSD	98	98	103	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111101AA

	Toluene-d8
6262840	99
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111102AA

	Toluene-d8
6262837	97
6262838	97
6262839	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6262840	114	103	96	96
Blank	109	102	99	98
LCS	114	104	97	99
LCSD	112	102	97	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11110WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262841	104	92	105
Blank	95	94	106
LCS	100	94	97
LCSD	98	92	98
Limits:	64-147	68-132	53-129

Analysis Name: 15b NDMA by 1625C
Batch number: 11110WAF026

	N-Nitrosodimethylamine-d6
6262841	155*
6262842	153*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Blank	82
LCS	141
LCSD	97
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11112WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262841	55	33	77	94	93	87
Blank	70	46	98	98	94	86
LCS	66	41	101	97	96	87
LCSD	66	41	96	95	92	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11115SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262819	95	94	109	91	89	89
6262820	96	93	112	93	93	92
6262821	105	98	96	84	82	84
6262822	104	100	110	90	92	90
6262823	110	102	111	96	90	90
6262824	97	87	108	84	79	92
6262825	101	93	94	89	88	92
6262826	99	92	99	87	81	92
6262827	103	99	93	91	89	91
6262828	99	96	96	94	89	91
6262829	104	100	89	93	91	94
6262830	103	99	107	89	89	94
6262831	103	98	106	95	87	96
6262832	104	102	108	98	97	93
6262834	105	99	104	91	92	87
6262835	101	93	98	95	92	94
6262836	91	93	114	96	93	92
6262837	101	99	112	92	85	86
6262838	85	82	96	92	89	95
6262839	91	88	90	91	90	94
Blank	106	104	121	95	94	95
LCS	90	86	102	84	76	84
MS	103	98	106	95	87	96
MSD	104	102	108	98	97	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11117SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6262819	91	83	88
6262820	93	86	87
6262821	100	91	80
6262822	102	92	79
6262823	97	90	79

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

6262824	92	82	89
6262825	96	89	83
6262826	100	92	81
6262827	98	90	82
6262828	95	91	77
6262829	89	85	74
6262830	95	88	89
6262831	101	86	89
6262832	100	87	87
6262834	97	95	79
6262835	95	87	83
6262836	93	87	82
6262837	88	84	79
6262838	85	81	82
6262839	93	88	83
Blank	107	101	110
LCS	99	92	98
MS	101	86	89
MSD	100	87	87
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11117SLE026

	N-Nitrosodimethylamine-d6
6262819	117
6262820	106
6262821	255*
6262822	91
6262823	105
6262828	106
6262829	102
6262830	108
6262831	120
6262832	122
6262834	98
6262835	145
6262836	95
Blank	85
LCS	84
MS	120
MSD	122
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11116B20A

	Trifluorotoluene-F
6262842	74
Blank	75
LCS	114
LCSD	109
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111110003A

	Butyraldehyde
6262841	115
6262842	114
Blank	111
LCS	111
LCSD	108
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111110024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6262841	105	119
Blank	112	114
LCS	104	103
LCSD	109	115
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111150016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6262819	99	107
6262820	107	128*
6262821	103	110
6262822	69	77
6262823	95	113
6262824	100	106
6262825	112	120
6262826	80	83
6262827	72	80
6262828	107	115
6262829	115	117
6262830	107	121*
6262831	97	113
6262832	105	124*
6262834	103	110
6262835	103	108
6262836	112	115
6262837	102	107
6262838	107	114
6262839	99	113
Blank	106	112
LCS	104	115
LCSD	104	124*
MS	97	113
MSD	105	131*
Limits:	53-139	45-120

Analysis Name: 16b Energetics by 8330A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Batch number: 111160001A

	2-Nitro-m-xylene
6262841	96
6262842	102
Blank	95
LCS	98
LCSD	97
Limits:	50-134

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111160002A

	Butyraldehyde
6262819	83
6262820	92
6262821	90
6262822	94
6262823	104
6262828	98
6262829	91
6262830	89
6262831	97
6262832	103
6262834	93
6262835	92
6262836	91
Blank	95
LCS	98
MS	97
MSD	103
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6262819	102
6262820	105
6262821	98
6262822	107
6262823	100
6262828	101
6262829	114
6262830	96
6262831	98
6262832	101
6262834	104
6262835	102
6262836	94
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111100042A

	n-Triacontane-d62
6262841	70
6262842	71
Blank	71
LCS	68
LCSD	69

Limits: 50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111100043A

	Chlorobenzene	Orthoterphenyl
6262841	87	98
6262842	77	88
Blank	72	81
LCS	85	98
LCSD	85	100

Limits: 28-152 52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 111110007A

	Tetramethylene glycol
6262841	104
6262842	102
Blank	102
LCS	103
LCSD	117

Limits: 77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111110008A

	Tetramethylene glycol
6262819	88
6262820	41
6262821	48
6262823	69
6262828	122
6262829	75
Blank	104
LCS	103
MS	108
MSD	89

Limits: 29-137

Analysis Name: 21a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

Batch number: 111120005A

	Tetramethylene glycol
6262830	70
6262831	94
6262832	90
6262834	106
6262835	52
6262836	65
Blank	115
LCS	108
MS	94
MSD	90
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111150003A

	Tetramethylene glycol
6262822	72
Blank	101
LCS	103
MS	92
MSD	59
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111150025A

	Acetone
6262819	80
6262820	75
6262821	67
6262822	82
6262823	82
6262828	92
6262829	86
6262830	86
6262831	85
6262832	89
Blank	100
LCS	99
MS	85
MSD	89
Limits:	42-138

Analysis Name: 19a Alcohols by 8015B
Batch number: 111150026A

	Acetone
6262834	89
6262835	78
6262836	85
Blank	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

LCS	101
MS	98
MSD	99
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111160038A

	Acetone
6262841	94
6262842	94
Blank	101
LCS	96
MS	96
MSD	94
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111170029A

	Chlorobenzene	Orthoterphenyl
6262819	67	100
6262820	70	93
6262821	67	99
6262822	91	129
6262823	74	121
6262828	69	104
6262829	69	93
6262830	64	101
6262831	81	108
6262832	85	112
6262834	86	121
6262835	76	113
6262836	65	95
Blank	93	110
LCS	91	108
MS	81	108
MSD	85	112
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111220022A

	n-Triacontane-d62
6262819	73
6262820	69
6262821	65
6262822	66
6262823	63
6262828	66
6262829	76
6262830	70
6262831	72
6262832	76

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242943
Reported: 05/20/11 at 10:48 AM

Surrogate Quality Control

6262834	71
6262835	67
6262836	69
Blank	77
LCS	77
MS	72
MSD	76
Limits:	50-150

*- Outside of specification
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acct#13013 Gp#1242943 Sample#62602819-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ Perhex chrome analysis, lab will measure pH and ORP $ Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Sampler's Signature: Stacy Britt						*Metals EPA 6010B/6020A/7470A	*Metals EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPA EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1634C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Hg EPA 7470A	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-075-SA8N-SS-0.0-0.5	04.19.11	0645	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0645	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-136-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-136-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
~~DUP04-SA8N-041044~~	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
~~DUP04-SA8N-041911~~	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															
Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)																					Laboratory:
	04/19/2011 / 1700		Tony Hubard 4/20/11 915																					Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.:																					
			8700 5992 3000, 2996																					

→ DUP04-SA8N-QC-041911 per PB. NLM 5/6/11

acct#13013 Cp# 1242943 Sample# 6262819-42

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-171-SA5A-SB-2.5	04.19.11	0940	SOIL	NONE	4-Encores										X	X											
SL-171-SA5A-SB-2.0-3.0	04.19.11	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-126-SA5A-SB-4.5	04.19.11	1225	SOIL	NONE	4-Encores										X	X											
SL-126-SA5A-SB-4.-5.0	04.19.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-127-SA5A-SB-2.5	04.19.11	1115	SOIL	NONE	4-Encores										X	X											
SL-127-SA5A-SB-2.0-3.0	04.19.11	1117	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041911	04.19.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s) 8700 5932 2974	

acct#13013 Gp#1242943 sample#626281942

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP ‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which discrete were collected Sampler Signature: Steve Blute						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	SCMs/PCBs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-LEH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Emerging EPA 8330A	**Cyanide EPA 9012B	**Tetrahydr EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	7-1 liter ambers			X	X	X																
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X			
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-250 mL glass														X							
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HCl	2-40 mL vials																				X	
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	4-40 mL vials													X						X		
Relinquished by: (Signature)	Date/Time 04/19/2011 / 1700		Received for Laboratory by: (Signature) Mary Hubert 4/20/11 915																							Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		AirBill No.(s) 8700 5932 2985,2996																							

acct# 13013 Qp* 1242943 Sample* 62628819-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which liners were collected Samplers Signature:						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Purge EPA TX1005	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA SM4500-B/H2O	Perchlorate Confirmation by EPA 6850 (LPA)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*N-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	*Perchlorate EPA 6850	*Glycols EPA 8015B	*Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	5-1L amber																X				X		X			
EB14-SA5A-SB-041911	04.19.11	1300	WATER	HCl	5-40mL Vials															X									X	
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	4-40mL Vials																	X						X		
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NONE	1-250mL galss																		X							
EB14-SA5A-SB-041911	04.19.11	1300	WATER	NaOH	1-500mL poly																				X					
Relinquished by: (Signature)	Date/Time: 04/19/2011 / 1700		Received for Laboratory by: (Signature): 4/20/11 915																										Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s): 8700 5932 2974																											

Nicole Maljovec Acct#13013 Grp#1242943 Sample#G262819-42

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, May 04, 2011 3:42 PM
To: Nicole Maljovec
Subject: RE: Revision to COC dated 4.19.2011

I thought I had replied to this. You are correct it should be 041911 and not 041011 (that was a typo!).

P

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, May 04, 2011 12:28 PM
To: Bloisa, Peggy
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
Did you have a chance to check on this one?

Thanks!
Nicole

From: Nicole Maljovec
Sent: Monday, May 02, 2011 11:58 AM
To: 'Bloisa, Peggy'
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
I was reviewing this change today and noticed the date. Did you mean DUP04-SA8N-QC-041911?

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, April 22, 2011 5:09 PM
To: Nicole Maljovec; Hartman, Pamela
Cc: Zakowski, Cherie; Burgesser, Todd
Subject: Revision to COC dated 4.19.2011

Hi Nicole – would you please make the following change to surface soil sample DUP04-SA8N-041911? The sample number should read as DUP04-SA8N-QC-041011.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2011
Group Number: 1243233
SDG: DE132
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-098-SA8N-SS-0.0-0.5 Soil	6264815
SL-101-SA8N-SS-0.0-0.5 Soil	6264816
SL-102-SA8N-SS-0.0-0.5 Soil	6264817
SL-108-SA8N-SS-0.0-0.5 Soil	6264818
SL-120-SA8N-SS-0.0-0.5 Soil	6264819
SL-120-SA8N-SS-0.0-0.5MS Soil	6264820
SL-120-SA8N-SS-0.0-0.5MSD Soil	6264821
SL-120-SA8N-SS-0.0-0.5DUP Soil	6264822
SL-127-SA8N-SS-0.0-0.5 Soil	6264823
SL-128-SA8N-SS-0.0-0.5 Soil	6264824
SL-129-SA8N-SS-0.0-0.5 Soil	6264825
SL-136-SA8N-SS-0.0-0.5 Soil	6264826
SL-137-SA8N-SS-0.0-0.5 Soil	6264827
DUP05-SA8N-QC-042011 Soil	6264828
EB07-SA8N-SS-042011 Water	6264829

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264815
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13201 SDG#: DE132-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264815
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13201 SDG#: DE132-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.43	J	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	1.6	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	1.2	J	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.93	J	0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.92	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.59	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.83	23.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264815
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13201 SDG#: DE132-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	7.96		1.03	5.80		1
01650	Calcium	7440-70-2	5,530		7.11	23.2		1
01654	Iron	7439-89-6	20,900		5.46	23.2		1
01656	Lithium	7439-93-2	21.1		0.26	2.3		1
01657	Magnesium	7439-95-4	4,440		2.95	11.6		1
06958	Manganese	7439-96-5	322		0.0905	0.580		1
10145	Phosphorus	7723-14-0	312		0.650	11.6		1
01662	Potassium	7440-09-7	3,210		20.9	58.0		1
01667	Sodium	7440-23-5	101	J	43.3	116		1
07968	Strontium	7440-24-6	28.0		0.0719	0.580		1
06969	Tin	7440-31-5	2.80	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,220		0.441	1.16		1
10146	Zirconium	7440-67-7	0.979	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.175	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.04		0.0937	0.468		2
06126	Barium	7440-39-3	109		0.126	0.468		2
06127	Beryllium	7440-41-7	0.707		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.255		0.0468	0.117		2
06131	Chromium	7440-47-3	20.8		0.141	0.468		2
06132	Cobalt	7440-48-4	6.68		0.0234	0.117		2
06133	Copper	7440-50-8	10.2		0.0773	0.468		2
06135	Lead	7439-92-1	9.23		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.533		0.0586	0.117		2
06139	Nickel	7440-02-0	13.1		0.117	0.468		2
06141	Selenium	7782-49-2	0.139	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0280	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.238		0.0351	0.117		2
06148	Vanadium	7440-62-2	40.8		0.0258	0.117		2
06149	Zinc	7440-66-6	76.9		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264815
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13201 SDG#: DE132-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	363	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.16	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	17.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 12:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 19:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 18:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264815
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13201 SDG#: DE132-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 17:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 07:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 13:19	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	389		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.46	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1

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Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,400		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.5	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.4	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.1		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.47	1.4		1

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Analysis Report

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	8.5		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	20		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.81	23.1		1
07914	Boron	7440-42-8	8.29		1.03	5.78		1
01650	Calcium	7440-70-2	3,570		7.08	23.1		1
01654	Iron	7439-89-6	20,000		5.44	23.1		1
01656	Lithium	7439-93-2	21.2		0.25	2.3		1
01657	Magnesium	7439-95-4	4,130		2.93	11.6		1
06958	Manganese	7439-96-5	395		0.0901	0.578		1
10145	Phosphorus	7723-14-0	456		0.647	11.6		1
01662	Potassium	7440-09-7	4,030		20.8	57.8		1
01667	Sodium	7440-23-5	86.1	J	43.1	116		1
07968	Strontium	7440-24-6	25.6		0.0716	0.578		1
06969	Tin	7440-31-5	2.82	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,210		0.439	1.16		1
10146	Zirconium	7440-67-7	0.970	U	0.970	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.24		0.0906	0.453		2
06126	Barium	7440-39-3	105		0.122	0.453		2
06127	Beryllium	7440-41-7	0.631		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.230		0.0453	0.113		2
06131	Chromium	7440-47-3	17.8		0.136	0.453		2

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Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.05	0.0227	0.113		2
06133	Copper	7440-50-8	10.4	0.0748	0.453		2
06135	Lead	7439-92-1	16.9	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.563	0.0566	0.113		2
06139	Nickel	7440-02-0	12.3	0.113	0.453		2
06141	Selenium	7782-49-2	0.127 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0376 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.236	0.0340	0.113		2
06148	Vanadium	7440-62-2	33.6	0.0249	0.113		2
06149	Zinc	7440-66-6	71.8	0.634	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3	0.93	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.32	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/12/2011 01:15	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 13:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 19:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 04:59	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 22:40	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 19:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 20:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 22:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 20:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 18:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264816
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13202 SDG#: DE132-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 16:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 17:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 17:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 08:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 13:32	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 10:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13203 SDG#: DE132-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	228		19.3	38.6		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13203 SDG#: DE132-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	3.5		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	4.1		0.77	1.9		1
10138	Fluorene	86-73-7	0.87	J	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	17	J	6.9	21		1
10138	Phenanthrene	85-01-8	2.1		0.77	1.9		1
10138	Pyrene	129-00-0	3.3		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1

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Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13203 SDG#: DE132-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	4.9		0.38	2.0		1
10225	PCB-1260	11096-82-5	2.7		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

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14420 Albemarle Point Place
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13203 SDG#: DE132-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	2.4	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	43		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	110		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		5.76	22.9		1
07914	Boron	7440-42-8	5.46	J	1.02	5.73		1
01650	Calcium	7440-70-2	2,950		7.02	22.9		1
01654	Iron	7439-89-6	18,500		5.40	22.9		1
01656	Lithium	7439-93-2	19.6		0.25	2.3		1
01657	Magnesium	7439-95-4	3,890		2.91	11.5		1
06958	Manganese	7439-96-5	258		0.0894	0.573		1
10145	Phosphorus	7723-14-0	372		0.642	11.5		1
01662	Potassium	7440-09-7	3,010		20.6	57.3		1
01667	Sodium	7440-23-5	85.9	J	42.7	115		1
07968	Strontium	7440-24-6	20.3		0.0710	0.573		1
06969	Tin	7440-31-5	2.66	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,100		0.435	1.15		1
10146	Zirconium	7440-67-7	0.963	U	0.963	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.224	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13203 SDG#: DE132-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.94		0.0926	0.463		2
06126	Barium	7440-39-3	110		0.125	0.463		2
06127	Beryllium	7440-41-7	0.794		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.469		0.0463	0.116		2
06131	Chromium	7440-47-3	21.7		0.139	0.463		2
06132	Cobalt	7440-48-4	7.38		0.0231	0.116		2
06133	Copper	7440-50-8	12.5		0.0764	0.463		2
06135	Lead	7439-92-1	17.2		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.553		0.0579	0.116		2
06139	Nickel	7440-02-0	14.6		0.116	0.463		2
06141	Selenium	7782-49-2	0.145	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0460	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.317		0.0347	0.116		2
06148	Vanadium	7440-62-2	41.9		0.0255	0.116		2
06149	Zinc	7440-66-6	115		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	416		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13203 SDG#: DE132-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/16/2011 11:01	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 13:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/30/2011 03:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 05:41	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 22:50	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 19:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 21:47	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 22:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 22:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 19:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264817
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13203 SDG#: DE132-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 16:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 17:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 17:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 08:52	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 13:57	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 10:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	616	J	337	674		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		1
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		1
04688	Benzo(b)fluoranthene	205-99-2	100	J	84	840		1
04688	Benzo(g,h,i)perylene	191-24-2	98	J	84	840		1
04688	Benzoic acid	65-85-0	840	U	840	2,500		1
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		1
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		1
04688	Di-n-butylphthalate	84-74-2	110	J	84	840		1
04688	Carbazole	86-74-8	84	U	84	840		1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		1
04688	4-Chloroaniline	106-47-8	330	U	330	840		1
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		1
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		1
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		1
04688	2-Chlorophenol	95-57-8	84	U	84	840		1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		1
04688	Dibenzofuran	132-64-9	84	U	84	840		1
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		1
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		1
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		1
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		1
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		1
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		1
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	520	J	84	1,700		1
04688	Fluoranthene	206-44-0	110	J	84	840		1
04688	Hexachlorobenzene	118-74-1	84	U	84	840		1
04688	Hexachlorobutadiene	87-68-3	330	U	330	840		1
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		1
04688	Hexachloroethane	67-72-1	84	U	84	840		1
04688	Isophorone	78-59-1	84	U	84	840		1
04688	2-Methylphenol	95-48-7	170	U	170	840		1
04688	4-Methylphenol	106-44-5	170	U	170	840		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		1
04688	3-Nitroaniline	99-09-2	170	U	170	840		1
04688	4-Nitroaniline	100-01-6	330	U	330	840		1
04688	Nitrobenzene	98-95-3	84	U	84	840		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	84	U	84	840		1
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		1
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		1
04688	Phenol	108-95-2	84	U	84	840		1
04688	Pyrene	129-00-0	100	J	84	840		1
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.9	J	1.7	8.4		5
10138	Anthracene	120-12-7	3.5	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	16		3.3	8.4		5
10138	Benzo(a)pyrene	50-32-8	27		3.3	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	20		3.3	8.4		5
10138	Butylbenzylphthalate	85-68-7	110		30	90		5
10138	Chrysene	218-01-9	54		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	11		3.3	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	90		5
10138	Dimethylphthalate	131-11-3	30	U	30	90		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
10138	Di-n-octylphthalate	117-84-0	230		30	90		5
10138	Phenanthrene	85-01-8	28		3.3	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	14		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	17		0.33	1.7		1
10225	PCB-1260	11096-82-5	12		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120		10
10199	EFH (C15-C20)	n.a.	61	J	40	120		10
10199	EFH (C21-C30)	n.a.	520		40	120		10
10199	EFH (C30 - C40)	n.a.	1,600		40	120		10
10199	EFH (C8-C11)	n.a.	40	U	40	120		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	340	J	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	13		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	13		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.0	U	3.0	7.1		1
10318	o-Terphenyl	84-15-1	3.0	U	3.0	7.1		1
10318	p-Terphenyl	92-94-4	3.0	J	3.0	7.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.09	20.2		1
07914	Boron	7440-42-8	6.71		0.900	5.06		1
01650	Calcium	7440-70-2	4,860		6.20	20.2		1
01654	Iron	7439-89-6	20,500		4.76	20.2		1
01656	Lithium	7439-93-2	13.6		0.22	2.0		1
01657	Magnesium	7439-95-4	4,810		2.57	10.1		1
06958	Manganese	7439-96-5	259		0.0789	0.506		1
10145	Phosphorus	7723-14-0	813		0.566	10.1		1
01662	Potassium	7440-09-7	3,040		18.2	50.6		1
01667	Sodium	7440-23-5	266		37.7	101		1
07968	Strontium	7440-24-6	30.8		0.0627	0.506		1
06969	Tin	7440-31-5	5.98	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,030		0.384	1.01		1
10146	Zirconium	7440-67-7	0.849	U	0.849	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.15		0.0595	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	3.30		0.0793	0.397		2
06126	Barium	7440-39-3	126		0.107	0.397		2
06127	Beryllium	7440-41-7	0.331		0.0159	0.0991		2
06128	Cadmium	7440-43-9	1.47		0.0397	0.0991		2
06131	Chromium	7440-47-3	24.7		0.119	0.397		2
06132	Cobalt	7440-48-4	6.91		0.0198	0.0991		2
06133	Copper	7440-50-8	29.2		0.0654	0.397		2
06135	Lead	7439-92-1	57.6		0.0103	0.198		2
06138	Molybdenum	7439-98-7	2.40		0.0496	0.0991		2
06139	Nickel	7440-02-0	23.7		0.0991	0.397		2
06141	Selenium	7782-49-2	0.279	J	0.0397	0.397		2
06142	Silver	7440-22-4	0.110		0.0119	0.0991		2
06145	Thallium	7440-28-0	0.204		0.0297	0.0991		2
06148	Vanadium	7440-62-2	40.4		0.0218	0.0991		2
06149	Zinc	7440-66-6	649		2.78	14.9		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0294	J	0.0027	0.0934		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	437		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/12/2011 01:48	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 14:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 20:54	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 06:24	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 22:59	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 19:54	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/04/2011 03:46	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 22:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120005A	04/25/2011 22:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 23:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120005A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264818
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13204 SDG#: DE132-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 16:38	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 18:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 18:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 09:14	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 14:09	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 10:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	149		17.8	35.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates. The background, matrix spike, and matrix spike duplicate samples were re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.9		5
10138	Benzo(a)pyrene	50-32-8	3.6	J	3.5	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	8.1	J	3.5	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	J	3.5	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.9		5
10138	Chrysene	218-01-9	6.9	J	1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.9		5
10138	Fluoranthene	206-44-0	9.5		3.5	8.9		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.9		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.9		5
10138	Phenanthrene	85-01-8	5.4	J	3.5	8.9		5
10138	Pyrene	129-00-0	6.6	J	3.5	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1

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Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	17		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	17		5
10225	Aroclor 5460	11126-42-4	5.3	U	5.3	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	9.0		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	9.0		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	9.0		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	9.0		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	9.0		5
10225	PCB-1254	11097-69-1	56		1.7	9.0		5
10225	PCB-1260	11096-82-5	17		2.1	9.0		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	9.0		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	9.0		5

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SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
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14420 Albemarle Point Place
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13205 SDG#: DE132-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	48		4.3	13		10
10199	EFH (C30 - C40)	n.a.	200		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.15	20.5		1
07914	Boron	7440-42-8	9.27		0.911	5.12		1
01650	Calcium	7440-70-2	6,510		6.28	20.5		1
01654	Iron	7439-89-6	26,600		4.82	20.5		1
01656	Lithium	7439-93-2	26.1		0.23	2.0		1
01657	Magnesium	7439-95-4	6,290		2.60	10.2		1
06958	Manganese	7439-96-5	371		0.0799	0.512		1
10145	Phosphorus	7723-14-0	467		0.573	10.2		1
01662	Potassium	7440-09-7	4,980		18.4	51.2		1
01667	Sodium	7440-23-5	120		38.2	102		1
07968	Strontium	7440-24-6	32.7		0.0635	0.512		1
06969	Tin	7440-31-5	2.81	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,270		0.389	1.02		1
10146	Zirconium	7440-67-7	0.860	U	0.860	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.308		0.0620	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.25		0.0827	0.414		2
06126	Barium	7440-39-3	129		0.112	0.414		2
06127	Beryllium	7440-41-7	0.758		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.466		0.0414	0.103		2

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SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

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14420 Albemarle Point Place
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Chantilly VA 20151

13205 SDG#: DE132-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	28.3		0.124	0.414		2
06132	Cobalt	7440-48-4	9.63		0.0207	0.103		2
06133	Copper	7440-50-8	17.8		0.0682	0.414		2
06135	Lead	7439-92-1	20.4		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.603		0.0517	0.103		2
06139	Nickel	7440-02-0	18.3		0.103	0.414		2
06141	Selenium	7782-49-2	0.165	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0736	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.324		0.0310	0.103		2
06148	Vanadium	7440-62-2	50.4		0.0227	0.103		2
06149	Zinc	7440-66-6	121		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0277	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.89	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	449		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/16/2011 11:18	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 11:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 14:15	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 07:06	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 23:19	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 20:13	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 22:37	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 23:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120006A	04/25/2011 17:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 20:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120006A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264819
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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13205 SDG#: DE132-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 15:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 09:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 09:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 16:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 16:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11124495201B	05/09/2011 20:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 14:22	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:21	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	740		17.8	35.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,600		18	180		1
04688	Aniline	62-53-3	720		180	530		1
04688	Anthracene	120-12-7	1,600		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180		1
04688	Benzoic acid	65-85-0	830		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180		1
04688	Carbazole	86-74-8	1,500		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		35	180		1
04688	4-Chloroaniline	106-47-8	670		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180		1
04688	2-Chlorophenol	95-57-8	1,500		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,600		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	840		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180		1
04688	Diethylphthalate	84-66-2	1,500		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180		1
04688	Dimethylphthalate	131-11-3	1,600		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	980		180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,200		350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,400		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,500		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	350		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,500		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,800		70	180		1

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Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,400		180	530		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		18	180		1
04688	Isophorone	78-59-1	1,600		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,500		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500		18	180		1
04688	2-Methylphenol	95-48-7	1,400		35	180		1
04688	4-Methylphenol	106-44-5	1,400		35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,600		18	180		1
04688	3-Nitroaniline	99-09-2	1,300		35	180		1
04688	4-Nitroaniline	100-01-6	1,100		70	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,600		18	180		1
04688	4-Nitrophenol	100-02-7	1,300		180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,400		180	530		1
04688	Phenanthrene	85-01-8	1,600		18	180		1
04688	Phenol	108-95-2	1,400		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		35	180		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates. The background, matrix spike, and matrix spike duplicate samples were re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30		3.5	8.9		5
10138	Acenaphthylene	208-96-8	29		1.8	8.9		5
10138	Anthracene	120-12-7	29		1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	30		3.5	8.9		5
10138	Benzo(a)pyrene	50-32-8	37		3.5	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	37		3.5	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	23		3.5	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	40		3.5	8.9		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	96		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	96		5
10138	Chrysene	218-01-9	33		1.8	8.9		5

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Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	23		3.5	8.9		5
10138	Diethylphthalate	84-66-2	32	U	32	96		5
10138	Dimethylphthalate	131-11-3	32	U	32	96		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	140		32	96		5
10138	Fluoranthene	206-44-0	39		3.5	8.9		5
10138	Fluorene	86-73-7	31		3.5	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		3.5	8.9		5
10138	1-Methylnaphthalene	90-12-0	30		3.5	8.9		5
10138	2-Methylnaphthalene	91-57-6	28		3.5	8.9		5
10138	Naphthalene	91-20-3	30		3.5	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	28		3.5	8.9		5
10138	Di-n-octylphthalate	117-84-0	77	J	32	96		5
10138	Phenanthrene	85-01-8	31		3.5	8.9		5
10138	Pyrene	129-00-0	27		3.5	8.9		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,400		43	130	10000000	1
10132	HMX	2691-41-0	2,100		110	320	10000000	1
10132	Nitrobenzene	98-95-3	2,300		43	130	10000000	1
10132	Nitroglycerin	55-63-0	53,000		850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,300		85	130	10000000	1
10132	PETN	78-11-5	64,000		850	2,600	10000000	1
10132	RDX	121-82-4	2,100		53	130	10000000	1
10132	Tetryl	479-45-8	1,800		65	130	10000000	1

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Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,000		640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18		5
10225	Aroclor 5460	11126-42-4	5.3	U	5.3	18		5
10225	PCB-1016	12674-11-2	16		1.7	9.0		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	9.0		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	9.0		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	9.0		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	9.0		5
10225	PCB-1254	11097-69-1	70		1.7	9.0		5
10225	PCB-1260	11096-82-5	36		2.1	9.0		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	9.0		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	9.0		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96		0.96	0.96		10
10199	EFH (C15-C20)	n.a.	3.2		2.1	2.1		10
10199	EFH (C21-C30)	n.a.	48		4.3	13		10
10199	EFH (C30 - C40)	n.a.	160		4.3	13		10
10199	EFH (C8-C11)	n.a.	0.46		0.43	0.43		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,900		110	530		1
10501	Isopropanol	67-63-0	2,100		110	530		1
10501	Methanol	67-56-1	1,900		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	220		5.3	13		1
08283	Ethylene glycol	107-21-1	200		5.3	13		1
08283	Propylene glycol	57-55-6	200		5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	3.7		1

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Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500	5.25	20.9		1
07914	Boron	7440-42-8	215	0.929	5.22		1
01650	Calcium	7440-70-2	10,200	6.40	20.9		1
01654	Iron	7439-89-6	25,000	4.92	20.9		1
01656	Lithium	7439-93-2	131	0.23	2.1		1
01657	Magnesium	7439-95-4	5,680	2.65	10.4		1
06958	Manganese	7439-96-5	437	0.0814	0.522		1
10145	Phosphorus	7723-14-0	586	0.585	10.4		1
01662	Potassium	7440-09-7	5,310	18.8	52.2		1
01667	Sodium	7440-23-5	1,220	38.9	104		1
07968	Strontium	7440-24-6	139	0.0647	0.522		1
06969	Tin	7440-31-5	363	1.04	10.4		1
06970	Titanium	7440-32-6	1,510	0.397	1.04		1
10146	Zirconium	7440-67-7	92.7	0.877	5.22		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.801	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.59	0.0844	0.422		2
06126	Barium	7440-39-3	144	0.114	0.422		2
06127	Beryllium	7440-41-7	1.77	0.0169	0.105		2
06128	Cadmium	7440-43-9	1.66	0.0422	0.105		2
06131	Chromium	7440-47-3	39.4	0.127	0.422		2
06132	Cobalt	7440-48-4	72.6	0.0211	0.105		2
06133	Copper	7440-50-8	31.2	0.0696	0.422		2
06135	Lead	7439-92-1	27.1	0.0110	0.211		2
06138	Molybdenum	7439-98-7	12.8	0.0527	0.105		2
06139	Nickel	7440-02-0	33.4	0.105	0.422		2
06141	Selenium	7782-49-2	2.52	0.0422	0.422		2
06142	Silver	7440-22-4	12.8	0.0127	0.105		2
06145	Thallium	7440-28-0	0.806	0.0316	0.105		2
06148	Vanadium	7440-62-2	61.7	0.0232	0.105		2
06149	Zinc	7440-66-6	141	0.590	3.16		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.266	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.5	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	16.0	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	477	9.6	31.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	33.8	1.1	5.3		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.5	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/16/2011 11:34	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 11:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 14:48	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 09:14	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 23:28	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 20:32	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 23:02	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 23:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120006A	04/25/2011 17:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 21:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120006A	04/22/2011 11:00	Dustin A Underkoffler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 15:57	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 16:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 16:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 07:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11124243201A	05/06/2011 14:41	Venia B McFadden	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264820
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	748		17.8	35.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	970		180	530		1
04688	Anthracene	120-12-7	1,600		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180		1
04688	Benzoic acid	65-85-0	900		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,500		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		35	180		1
04688	4-Chloroaniline	106-47-8	950		71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,600		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		18	180		1
04688	Dibenzofuran	132-64-9	1,600		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,600		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180		1
04688	Dimethylphthalate	131-11-3	1,600		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	690		180	530		1
04688	2,4-Dinitrophenol	51-28-5	730	J	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	350		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,600		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,900		71	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,100		180	530		1
04688	Hexachloroethane	67-72-1	1,400		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180		1
04688	Isophorone	78-59-1	1,600		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,600		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500		18	180		1
04688	2-Methylphenol	95-48-7	1,500		35	180		1
04688	4-Methylphenol	106-44-5	1,500		35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,700		18	180		1
04688	3-Nitroaniline	99-09-2	1,500		35	180		1
04688	4-Nitroaniline	100-01-6	1,300		71	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,600		18	180		1
04688	4-Nitrophenol	100-02-7	1,300		180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,400		180	530		1
04688	Phenanthrene	85-01-8	1,600		18	180		1
04688	Phenol	108-95-2	1,500		18	180		1
04688	Pyrene	129-00-0	1,800		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		35	180		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates. The background, matrix spike, and matrix spike duplicate samples were re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34		3.5	8.9		5
10138	Acenaphthylene	208-96-8	32		1.8	8.9		5
10138	Anthracene	120-12-7	32		1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	38		3.5	8.9		5
10138	Benzo(a)pyrene	50-32-8	44		3.5	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	57		3.5	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	25		3.5	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	39		3.5	8.9		5
10138	Butylbenzylphthalate	85-68-7	35	J	32	96		5
10138	Di-n-butylphthalate	84-74-2	37	J	32	96		5
10138	Chrysene	218-01-9	43		1.8	8.9		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	24		3.5	8.9		5
10138	Diethylphthalate	84-66-2	32	U	32	96		5
10138	Dimethylphthalate	131-11-3	34	J	32	96		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52	J	32	96		5
10138	Fluoranthene	206-44-0	53		3.5	8.9		5
10138	Fluorene	86-73-7	34		3.5	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		3.5	8.9		5
10138	1-Methylnaphthalene	90-12-0	33		3.5	8.9		5
10138	2-Methylnaphthalene	91-57-6	30		3.5	8.9		5
10138	Naphthalene	91-20-3	32		3.5	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	32		3.5	8.9		5
10138	Di-n-octylphthalate	117-84-0	77	J	32	96		5
10138	Phenanthrene	85-01-8	36		3.5	8.9		5
10138	Pyrene	129-00-0	37		3.5	8.9		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	2,300		43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	2,300		43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	2,400		43	130	10000000	1
10132	HMX	2691-41-0	2,100		110	320	10000000	1
10132	Nitrobenzene	98-95-3	2,200		43	130	10000000	1
10132	Nitroglycerin	55-63-0	53,000		850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	2,300		85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	2,400		110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	2,200		85	130	10000000	1
10132	PETN	78-11-5	63,000		850	2,600	10000000	1
10132	RDX	121-82-4	2,000		53	130	10000000	1
10132	Tetryl	479-45-8	1,900		65	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18		5
10225	Aroclor 5460	11126-42-4	5.3	U	5.3	18		5
10225	PCB-1016	12674-11-2	17		1.7	9.0		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	9.0		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	9.0		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	9.0		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	9.0		5
10225	PCB-1254	11097-69-1	87		1.7	9.0		5
10225	PCB-1260	11096-82-5	36		2.1	9.0		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	9.0		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	9.0		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0		0.96	0.96		10
10199	EFH (C15-C20)	n.a.	4.7	J	4.3	13		10
10199	EFH (C21-C30)	n.a.	51		4.3	13		10
10199	EFH (C30 - C40)	n.a.	160		4.3	13		10
10199	EFH (C8-C11)	n.a.	0.55		0.53	0.53		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		110	530		1
10501	Isopropanol	67-63-0	2,100		110	530		1
10501	Methanol	67-56-1	1,900		110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	210		5.3	13		1
08283	Ethylene glycol	107-21-1	200		5.3	13		1
08283	Propylene glycol	57-55-6	190		5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6		1.5	1.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400	5.20	20.7		1
07914	Boron	7440-42-8	209	0.920	5.17		1
01650	Calcium	7440-70-2	12,200	6.34	20.7		1
01654	Iron	7439-89-6	22,000	4.87	20.7		1
01656	Lithium	7439-93-2	127	0.23	2.1		1
01657	Magnesium	7439-95-4	5,050	2.63	10.3		1
06958	Manganese	7439-96-5	331	0.0806	0.517		1
10145	Phosphorus	7723-14-0	458	0.579	10.3		1
01662	Potassium	7440-09-7	4,810	18.6	51.7		1
01667	Sodium	7440-23-5	1,190	38.6	103		1
07968	Strontium	7440-24-6	135	0.0641	0.517		1
06969	Tin	7440-31-5	355	1.03	10.3		1
06970	Titanium	7440-32-6	1,400	0.393	1.03		1
10146	Zirconium	7440-67-7	91.3	0.869	5.17		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.785	0.0614	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.85	0.0819	0.410		2
06126	Barium	7440-39-3	168	0.111	0.410		2
06127	Beryllium	7440-41-7	1.85	0.0164	0.102		2
06128	Cadmium	7440-43-9	1.76	0.0410	0.102		2
06131	Chromium	7440-47-3	39.8	0.123	0.410		2
06132	Cobalt	7440-48-4	76.0	0.0205	0.102		2
06133	Copper	7440-50-8	32.2	0.0676	0.410		2
06135	Lead	7439-92-1	29.1	0.0106	0.205		2
06138	Molybdenum	7439-98-7	12.8	0.0512	0.102		2
06139	Nickel	7440-02-0	33.0	0.102	0.410		2
06141	Selenium	7782-49-2	2.47	0.0410	0.410		2
06142	Silver	7440-22-4	13.1	0.0123	0.102		2
06145	Thallium	7440-28-0	0.821	0.0307	0.102		2
06148	Vanadium	7440-62-2	64.0	0.0225	0.102		2
06149	Zinc	7440-66-6	147	0.573	3.07		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.250	0.0029	0.102		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11118SLH026	05/16/2011 11:51	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 12:20	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 15:21	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11118SLH026	04/29/2011 03:35	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 09:56	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 23:38	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 20:50	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 23:27	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 23:39	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120006A	04/25/2011 18:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 22:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120006A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264821
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 09:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264822
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.15	20.5		1
07914	Boron	7440-42-8	9.01		0.911	5.12		1
01650	Calcium	7440-70-2	6,160		6.28	20.5		1
01654	Iron	7439-89-6	23,900		4.82	20.5		1
01656	Lithium	7439-93-2	24.8		0.23	2.0		1
01657	Magnesium	7439-95-4	5,200		2.60	10.2		1
06958	Manganese	7439-96-5	336		0.0799	0.512		1
10145	Phosphorus	7723-14-0	409		0.573	10.2		1
01662	Potassium	7440-09-7	3,950		18.4	51.2		1
01667	Sodium	7440-23-5	97.6	J	38.2	102		1
07968	Strontium	7440-24-6	31.8		0.0635	0.512		1
06969	Tin	7440-31-5	2.68	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,220		0.389	1.02		1
10146	Zirconium	7440-67-7	1.46	J	0.860	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.97		0.0844	0.422		2
06126	Barium	7440-39-3	102		0.114	0.422		2
06127	Beryllium	7440-41-7	0.631		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.270		0.0422	0.105		2
06131	Chromium	7440-47-3	22.7		0.127	0.422		2
06132	Cobalt	7440-48-4	7.54		0.0211	0.105		2
06133	Copper	7440-50-8	15.6		0.0696	0.422		2
06135	Lead	7439-92-1	14.8		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.483		0.0527	0.105		2
06139	Nickel	7440-02-0	14.4		0.105	0.422		2
06141	Selenium	7782-49-2	0.143	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.110		0.0127	0.105		2
06145	Thallium	7440-28-0	0.271		0.0316	0.105		2
06148	Vanadium	7440-62-2	42.3		0.0232	0.105		2
06149	Zinc	7440-66-6	104		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0371	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.21	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264822
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	6.9		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	6.1		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 15:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 09:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264822
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13205 SDG#: DE132-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 16:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 16:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201A	05/07/2011 16:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 06:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11124243201A	05/06/2011 15:19	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:24	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264823
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13206 SDG#: DE132-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	20	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,100		18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264823
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13206 SDG#: DE132-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.9		5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	3.8	J	3.5	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	3.5	U	3.5	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.9		5
10138	Chrysene	218-01-9	3.1	J	1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.9		5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.9		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.9		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.9		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.9		5
10138	Pyrene	129-00-0	3.5	U	3.5	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	15		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	5.7		0.35	1.8		1
10225	PCB-1260	11096-82-5	3.7		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264823
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13206 SDG#: DE132-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	16		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	43		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.29	21.0		1
07914	Boron	7440-42-8	6.44		0.935	5.25		1
01650	Calcium	7440-70-2	3,240		6.44	21.0		1
01654	Iron	7439-89-6	19,000		4.95	21.0		1
01656	Lithium	7439-93-2	21.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,400		2.67	10.5		1
06958	Manganese	7439-96-5	344		0.0820	0.525		1
10145	Phosphorus	7723-14-0	407		0.588	10.5		1
01662	Potassium	7440-09-7	3,750		18.9	52.5		1
01667	Sodium	7440-23-5	114		39.2	105		1
07968	Strontium	7440-24-6	22.6		0.0651	0.525		1
06969	Tin	7440-31-5	2.57	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,220		0.399	1.05		1
10146	Zirconium	7440-67-7	0.883	U	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.64		0.0841	0.420		2
06126	Barium	7440-39-3	108		0.113	0.420		2
06127	Beryllium	7440-41-7	0.638		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.301		0.0420	0.105		2
06131	Chromium	7440-47-3	19.4		0.126	0.420		2
06132	Cobalt	7440-48-4	7.15		0.0210	0.105		2
06133	Copper	7440-50-8	11.8		0.0694	0.420		2
06135	Lead	7439-92-1	16.8		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.802		0.0525	0.105		2
06139	Nickel	7440-02-0	14.0		0.105	0.420		2
06141	Selenium	7782-49-2	0.186	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0470	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.312		0.0315	0.105		2
06148	Vanadium	7440-62-2	36.7		0.0231	0.105		2
06149	Zinc	7440-66-6	103		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0188	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264823
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13206 SDG#: DE132-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.21	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	526		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011	14:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011	21:27	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011	13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011	14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011	21:09	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011	04:00	Roman Kuropatkin	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011	20:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011	14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011	16:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011	16:32	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264823
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13206 SDG#: DE132-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 18:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 09:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 15:26	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13207 SDG#: DE132-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	23	J	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13207 SDG#: DE132-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.91	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.87	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	2.1		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.7		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.79	2.0		1
10138	Pyrene	129-00-0	2.1		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	2.0	J	0.40	2.0		1
10225	PCB-1260	11096-82-5	1.0	J	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
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Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

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Suite 210
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13207 SDG#: DE132-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96	U	0.96	2.9		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.96	2.9		2
10199	EFH (C21-C30)	n.a.	12		0.96	2.9		2
10199	EFH (C30 - C40)	n.a.	45		0.96	2.9		2
10199	EFH (C8-C11)	n.a.	0.96	U	0.96	2.9		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.87	23.3		1
07914	Boron	7440-42-8	6.19		1.04	5.83		1
01650	Calcium	7440-70-2	2,980		7.15	23.3		1
01654	Iron	7439-89-6	19,700		5.50	23.3		1
01656	Lithium	7439-93-2	20.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,260		2.96	11.7		1
06958	Manganese	7439-96-5	378		0.0910	0.583		1
10145	Phosphorus	7723-14-0	278		0.653	11.7		1
01662	Potassium	7440-09-7	3,140		21.0	58.3		1
01667	Sodium	7440-23-5	107	J	43.5	117		1
07968	Strontium	7440-24-6	21.7		0.0723	0.583		1
06969	Tin	7440-31-5	2.94	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,350		0.443	1.17		1
10146	Zirconium	7440-67-7	0.980	U	0.980	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0714	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.97		0.0952	0.476		2
06126	Barium	7440-39-3	153		0.129	0.476		2
06127	Beryllium	7440-41-7	0.845		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.350		0.0476	0.119		2
06131	Chromium	7440-47-3	27.0		0.143	0.476		2
06132	Cobalt	7440-48-4	9.50		0.0238	0.119		2
06133	Copper	7440-50-8	14.9		0.0785	0.476		2
06135	Lead	7439-92-1	17.7		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.805		0.0595	0.119		2
06139	Nickel	7440-02-0	19.8		0.119	0.476		2
06141	Selenium	7782-49-2	0.167	J	0.0476	0.476		2
06142	Silver	7440-22-4	0.0511	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.366		0.0357	0.119		2
06148	Vanadium	7440-62-2	48.5		0.0262	0.119		2
06149	Zinc	7440-66-6	109		0.666	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13207 SDG#: DE132-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	561		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 14:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/30/2011 03:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 21:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 23:52	Heather E Williams	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13207 SDG#: DE132-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 18:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 09:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 15:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-128-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264824
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13207 SDG#: DE132-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.								
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.40	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	14		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	4.1		0.36	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	2.4		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	28		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.38	21.4		1
07914	Boron	7440-42-8	6.07		0.953	5.35		1
01650	Calcium	7440-70-2	3,300		6.56	21.4		1
01654	Iron	7439-89-6	21,500		5.04	21.4		1
01656	Lithium	7439-93-2	23.2		0.24	2.1		1
01657	Magnesium	7439-95-4	4,810		2.72	10.7		1
06958	Manganese	7439-96-5	335		0.0835	0.535		1
10145	Phosphorus	7723-14-0	281		0.599	10.7		1
01662	Potassium	7440-09-7	3,590		19.3	53.5		1
01667	Sodium	7440-23-5	114		39.9	107		1
07968	Strontium	7440-24-6	20.6		0.0664	0.535		1
06969	Tin	7440-31-5	2.67	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.407	1.07		1
10146	Zirconium	7440-67-7	0.899	U	0.899	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.47		0.0840	0.420		2
06126	Barium	7440-39-3	119		0.113	0.420		2
06127	Beryllium	7440-41-7	0.713		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.189		0.0420	0.105		2
06131	Chromium	7440-47-3	21.0		0.126	0.420		2
06132	Cobalt	7440-48-4	7.43		0.0210	0.105		2
06133	Copper	7440-50-8	11.6		0.0693	0.420		2
06135	Lead	7439-92-1	9.59		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.505		0.0525	0.105		2
06139	Nickel	7440-02-0	14.7		0.105	0.420		2
06141	Selenium	7782-49-2	0.149	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0305	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.308		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.1		0.0231	0.105		2
06149	Zinc	7440-66-6	74.2		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0049	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	533		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.54		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 15:20	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/30/2011 04:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 21:46	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 21:22	Heather E Williams	1

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Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 18:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 10:21	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 15:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-129-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264825
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13208 SDG#: DE132-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264826
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13209 SDG#: DE132-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	110	J	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	21	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264826
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13209 SDG#: DE132-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	21	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	3.8		0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264826
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13209 SDG#: DE132-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,000		5.79	23.0		1
07914	Boron	7440-42-8	5.67	J	1.02	5.76		1
01650	Calcium	7440-70-2	4,190		7.06	23.0		1
01654	Iron	7439-89-6	26,100		5.42	23.0		1
01656	Lithium	7439-93-2	28.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,960		2.92	11.5		1
06958	Manganese	7439-96-5	302		0.0898	0.576		1
10145	Phosphorus	7723-14-0	345		0.645	11.5		1
01662	Potassium	7440-09-7	2,540		20.7	57.6		1
01667	Sodium	7440-23-5	108	J	43.0	115		1
07968	Strontium	7440-24-6	28.4		0.0714	0.576		1
06969	Tin	7440-31-5	3.20	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,360		0.438	1.15		1
10146	Zirconium	7440-67-7	0.967	U	0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.93		0.0930	0.465		2
06126	Barium	7440-39-3	124		0.126	0.465		2
06127	Beryllium	7440-41-7	0.826		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.119		0.0465	0.116		2
06131	Chromium	7440-47-3	25.2		0.140	0.465		2
06132	Cobalt	7440-48-4	8.15		0.0233	0.116		2
06133	Copper	7440-50-8	14.8		0.0767	0.465		2
06135	Lead	7439-92-1	8.98		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.385		0.0581	0.116		2
06139	Nickel	7440-02-0	17.1		0.116	0.465		2
06141	Selenium	7782-49-2	0.143	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0360	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.363		0.0349	0.116		2
06148	Vanadium	7440-62-2	45.1		0.0256	0.116		2
06149	Zinc	7440-66-6	65.7		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0093	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264826
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13209 SDG#: DE132-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	503	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.17	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 15:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011 23:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 22:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264826
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13209 SDG#: DE132-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:45	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 19:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11124495201B	05/06/2011 10:43	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 16:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11124495201B	05/05/2011 02:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101A	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401A	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264827
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13210 SDG#: DE132-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	120	J	86	860		1
04688	Aniline	62-53-3	860	U	860	2,600		1
04688	Anthracene	120-12-7	190	J	86	860		1
04688	Benzidine	92-87-5	6,000	U	6,000	17,000		1
04688	Benzo(a)anthracene	56-55-3	1,200		86	860		1
04688	Benzo(a)pyrene	50-32-8	1,200		86	860		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		86	860		1
04688	Benzo(g,h,i)perylene	191-24-2	980		86	860		1
04688	Benzo(k)fluoranthene	207-08-9	910		86	860		1
04688	Benzoic acid	65-85-0	860	U	860	2,600		1
04688	Benzyl alcohol	100-51-6	860	U	860	2,600		1
04688	4-Bromophenyl-phenylether	101-55-3	86	U	86	860		1
04688	Butylbenzylphthalate	85-68-7	86	U	86	860		1
04688	Di-n-butylphthalate	84-74-2	86	U	86	860		1
04688	Carbazole	86-74-8	110	J	86	860		1
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	860		1
04688	4-Chloroaniline	106-47-8	350	U	350	860		1
04688	bis(2-Chloroethoxy)methane	111-91-1	86	U	86	860		1
04688	bis(2-Chloroethyl)ether	111-44-4	86	U	86	860		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	86	U	86	860		1
04688	2-Chloronaphthalene	91-58-7	86	U	86	860		1
04688	2-Chlorophenol	95-57-8	86	U	86	860		1
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	860		1
04688	Chrysene	218-01-9	1,700		86	860		1
04688	Dibenz(a,h)anthracene	53-70-3	280	J	86	860		1
04688	Dibenzofuran	132-64-9	86	U	86	860		1
04688	1,2-Dichlorobenzene	95-50-1	86	U	86	860		1
04688	1,3-Dichlorobenzene	541-73-1	86	U	86	860		1
04688	1,4-Dichlorobenzene	106-46-7	86	U	86	860		1
04688	3,3'-Dichlorobenzidine	91-94-1	520	U	520	1,700		1
04688	2,4-Dichlorophenol	120-83-2	86	U	86	860		1
04688	Diethylphthalate	84-66-2	86	U	86	860		1
04688	2,4-Dimethylphenol	105-67-9	170	U	170	860		1
04688	3,5-Dimethylphenol	108-68-9	170	U	170	860		1
04688	Dimethylphthalate	131-11-3	86	U	86	860		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	860	U	860	2,600		1
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,200		1
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	860		1
04688	2,6-Dinitrotoluene	606-20-2	86	U	86	860		1
04688	1,2-Diphenylhydrazine	122-66-7	86	U	86	860		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	140	J	86	1,700		1
04688	Fluoranthene	206-44-0	2,200		86	860		1
04688	Hexachlorobenzene	118-74-1	86	U	86	860		1
04688	Hexachlorobutadiene	87-68-3	350	U	350	860		1
04688	Hexachlorocyclopentadiene	77-47-4	860	U	860	2,600		1
04688	Hexachloroethane	67-72-1	86	U	86	860		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	790	J	86	860		1
04688	Isophorone	78-59-1	86	U	86	860		1
04688	2-Methylphenol	95-48-7	170	U	170	860		1
04688	4-Methylphenol	106-44-5	170	U	170	860		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264827
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13210 SDG#: DE132-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	86	U	86	860		1
04688	3-Nitroaniline	99-09-2	170	U	170	860		1
04688	4-Nitroaniline	100-01-6	350	U	350	860		1
04688	Nitrobenzene	98-95-3	86	U	86	860		1
04688	2-Nitrophenol	88-75-5	86	U	86	860		1
04688	4-Nitrophenol	100-02-7	860	U	860	2,600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	86	U	86	860		1
04688	N-Nitrosodiphenylamine	86-30-6	86	U	86	860		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	86	U	86	860		1
04688	Pentachlorophenol	87-86-5	860	U	860	2,600		1
04688	Phenanthrene	85-01-8	1,200		86	860		1
04688	Phenol	108-95-2	86	U	86	860		1
04688	Pyrene	129-00-0	2,600		86	860		1
04688	1,2,4-Trichlorobenzene	120-82-1	86	U	86	860		1
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	860		1
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	860		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	9.4	J	5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	16		1.7	8.8		5
10225	PCB-1260	11096-82-5	8.1	J	2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264827
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13210 SDG#: DE132-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		5.04	20.1		1
07914	Boron	7440-42-8	6.46		0.892	5.01		1
01650	Calcium	7440-70-2	6,340		6.15	20.1		1
01654	Iron	7439-89-6	20,400		4.72	20.1		1
01656	Lithium	7439-93-2	19.8		0.22	2.0		1
01657	Magnesium	7439-95-4	4,710		2.55	10.0		1
06958	Manganese	7439-96-5	270		0.0782	0.501		1
10145	Phosphorus	7723-14-0	503		0.561	10.0		1
01662	Potassium	7440-09-7	3,350		18.0	50.1		1
01667	Sodium	7440-23-5	140		37.4	100		1
07968	Strontium	7440-24-6	23.0		0.0622	0.501		1
06969	Tin	7440-31-5	2.43	J	1.00	10.0		1
06970	Titanium	7440-32-6	1,150		0.381	1.00		1
10146	Zirconium	7440-67-7	0.842	U	0.842	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.70		0.0810	0.405		2
06126	Barium	7440-39-3	95.1		0.109	0.405		2
06127	Beryllium	7440-41-7	0.489		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.362		0.0405	0.101		2
06131	Chromium	7440-47-3	21.3		0.121	0.405		2
06132	Cobalt	7440-48-4	6.95		0.0202	0.101		2
06133	Copper	7440-50-8	12.2		0.0668	0.405		2
06135	Lead	7439-92-1	29.7		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.586		0.0506	0.101		2
06139	Nickel	7440-02-0	14.3		0.101	0.405		2
06141	Selenium	7782-49-2	0.106	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0667	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.240		0.0304	0.101		2
06148	Vanadium	7440-62-2	37.5		0.0223	0.101		2
06149	Zinc	7440-66-6	84.5		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.267		0.0028	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264827
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13210 SDG#: DE132-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	399	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.41	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	4.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011	16:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/29/2011	23:37	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011	13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011	14:30	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011	22:23	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011	04:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011	16:49	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264827
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13210 SDG#: DE132-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:49	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201A	05/07/2011 19:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 14:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 16:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201A	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	58.8		17.8	35.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	38	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	Due to a laboratory error, the MS/MSD associated with this batch were not spiked with surrogates.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	89		1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	390		3.6	8.9		5
10138	Benzo(a)pyrene	50-32-8	340		3.6	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	570		3.6	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	87		3.6	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	320		3.6	8.9		5
10138	Chrysene	218-01-9	480		1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	43		3.6	8.9		5
10138	Fluoranthene	206-44-0	1,000		3.6	8.9		5
10138	Fluorene	86-73-7	41		3.6	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	120		3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.8	J	3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	6.0	J	3.6	8.9		5
10138	Naphthalene	91-20-3	7.6	J	3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Phenanthrene	85-01-8	630		3.6	8.9		5
10138	Pyrene	129-00-0	630		3.6	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	11	U	11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	75		3.5	18		10
10225	PCB-1260	11096-82-5	21		4.2	18		10
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.6	U	8.6	26		20
10199	EFH (C15-C20)	n.a.	8.6	U	8.6	26		20

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	62		8.6	26		20
10199	EFH (C30 - C40)	n.a.	240		8.6	26		20
10199	EFH (C8-C11)	n.a.	8.6	U	8.6	26		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.39	21.4		1
07914	Boron	7440-42-8	10.6		0.954	5.36		1
01650	Calcium	7440-70-2	6,500		6.57	21.4		1
01654	Iron	7439-89-6	25,400		5.05	21.4		1
01656	Lithium	7439-93-2	24.7		0.24	2.1		1
01657	Magnesium	7439-95-4	5,280		2.72	10.7		1
06958	Manganese	7439-96-5	322		0.0836	0.536		1
10145	Phosphorus	7723-14-0	463		0.600	10.7		1
01662	Potassium	7440-09-7	4,010		19.3	53.6		1
01667	Sodium	7440-23-5	94.9	J	40.0	107		1
07968	Strontium	7440-24-6	32.9		0.0665	0.536		1
06969	Tin	7440-31-5	2.72	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,260		0.407	1.07		1
10146	Zirconium	7440-67-7	0.900	U	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216		0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.86		0.0832	0.416		2
06126	Barium	7440-39-3	113		0.112	0.416		2
06127	Beryllium	7440-41-7	0.658		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.438		0.0416	0.104		2
06131	Chromium	7440-47-3	24.0		0.125	0.416		2

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Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	12.6		0.0208	0.104		2
06133	Copper	7440-50-8	17.0		0.0687	0.416		2
06135	Lead	7439-92-1	20.8		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.679		0.0520	0.104		2
06139	Nickel	7440-02-0	16.6		0.104	0.416		2
06141	Selenium	7782-49-2	0.193	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.106		0.0125	0.104		2
06145	Thallium	7440-28-0	0.310		0.0312	0.104		2
06148	Vanadium	7440-62-2	44.0		0.0229	0.104		2
06149	Zinc	7440-66-6	118		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0556	J	0.0028	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.91	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/12/2011 02:54	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLC026	05/04/2011 16:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11117SLB026	04/30/2011 00:09	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11117SLB026	04/27/2011 13:30	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLC026	04/28/2011 14:30	Olivia I Santiago	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 10:39	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160003A	04/28/2011 23:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111160021A	04/28/2011 22:41	Lindsey K Lafferty	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111160021A	04/27/2011 04:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160003A	04/26/2011 11:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/03/2011 00:17	Heather E Williams	20
10501	19a Alcohols by 8015B	SW-846 8015B	1	111150026A	04/25/2011 23:54	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111120006A	04/25/2011 18:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 22:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111150026A	04/25/2011 17:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111120006A	04/22/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1

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Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264828
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13211 SDG#: DE132-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111165708006	05/03/2011 16:53	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111181026002D	05/02/2011 10:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111181026002C	05/02/2011 10:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111181026002B	05/02/2011 10:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111181026002A	05/02/2011 10:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111165711006	04/28/2011 05:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111165708006	04/27/2011 13:56	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111181026002	04/28/2011 22:11	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111165711006	04/27/2011 14:15	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11125495201B	05/07/2011 20:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11125495201B	05/07/2011 20:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11126126201A	05/08/2011 12:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11124243201A	05/06/2011 16:40	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11118102201B	04/29/2011 09:25	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11125495201B	05/06/2011 02:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11126126201A	05/06/2011 21:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11118102201B	04/28/2011 23:45	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11124243201A	05/04/2011 12:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB07-SA8N-SS-042011 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264829
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13212 SDG#: DE132-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB07-SA8N-SS-042011 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264829
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13212 SDG#: DE132-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0099	U	0.0099	0.050		1
10137	Acenaphthylene	208-96-8	0.0099	U	0.0099	0.050		1
10137	Anthracene	120-12-7	0.0099	U	0.0099	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.0099	U	0.0099	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.0099	U	0.0099	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.0099	U	0.0099	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0099	U	0.0099	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.0099	U	0.0099	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	0.99		1
10137	Di-n-butylphthalate	84-74-2	0.31	J	0.050	0.99		1
10137	Chrysene	218-01-9	0.0099	U	0.0099	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0099	U	0.0099	0.050		1
10137	Diethylphthalate	84-66-2	0.074	J	0.050	0.99		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	0.99		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.050	0.99		1
10137	Fluoranthene	206-44-0	0.0099	U	0.0099	0.050		1
10137	Fluorene	86-73-7	0.0099	U	0.0099	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0099	U	0.0099	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.0099	U	0.0099	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.0099	U	0.0099	0.050		1
10137	Naphthalene	91-20-3	0.033	J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.0099	U	0.0099	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	0.99		1
10137	Phenanthrene	85-01-8	0.0099	U	0.0099	0.050		1
10137	Pyrene	129-00-0	0.0099	U	0.0099	0.050		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2-methylnaphthalene

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB07-SA8N-SS-042011 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264829
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13212 SDG#: DE132-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0199 J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0800 J	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

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Sample Description: EB07-SA8N-SS-042011 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264829
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13212 SDG#: DE132-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		ug/l	ug/l	ug/l	ug/l	
	This sample was originally analyzed within the 24 hour holding time for Hexavalent Chromium, however the continuing calibration blank bracketing the sample is not within specification. The analysis was repeated on 5/12/2011. The continuing calibration blank bracketing the sample on the second trial is within specification. The first trial result is being reported because it was analyzed within the holding time.						
	SW-846 9040B		Std. Units	Std. Units	Std. Units	Std. Units	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11112WAJ026	04/24/2011	14:49	Matthew S Woods	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11112WAK026	04/26/2011	10:32	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11112WAJ026	04/23/2011	09:00	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11112WAK026	04/23/2011	09:00	Olivia Arosemena	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111110024A	04/25/2011	23:12	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111110024A	04/22/2011	10:45	Denise L Trimby	1
01743	Aluminum	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
08014	Boron	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01754	Iron	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01756	Lithium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
07058	Manganese	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01762	Potassium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
01767	Sodium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
08068	Strontium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
07069	Tin	SW-846 6010B	1	111171848001	05/02/2011	16:42	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111171848001	04/29/2011	19:46	John P Hook	1
06024	Antimony	SW-846 6020	1	111176050001A	04/28/2011	12:58	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111176050001A	04/28/2011	12:58	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111176050001D	04/28/2011	12:58	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111176050001A	04/28/2011	12:58	Choon Y Tian	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB07-SA8N-SS-042011 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264829
LLI Group # 1243233
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/20/2011 11:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13212 SDG#: DE132-12EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06028	Cadmium	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111176050001C	04/28/2011 12:58	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111176050001B	04/28/2011 12:58	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111176050001A	04/28/2011 12:58	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111185713005	05/02/2011 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111171848001	04/27/2011 22:00	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111176050001	04/27/2011 22:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111185713005	04/29/2011 16:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11115196902C	04/27/2011 01:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 06:20	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11111196401A	04/21/2011 11:13	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11112020001A	04/22/2011 20:30	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11112WAJ026	Sample number(s): 6264829									
Aniline	1	U	1.	5	ug/l	80	77	49-101	3	30
Benzidine	20	U	20.	60	ug/l	84	79	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	25	33	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	78	79	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	93	82-117	1	30
Carbazole	1	U	1.	5	ug/l	100	102	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	92	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	77	73	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	99	74-124	0	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	99	97	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	85	54-132	8	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	95	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	79	74	55-118	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	74	67	50-119	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	77	71	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	72	49-111	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	97	80-109	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	95	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	98	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	98	98	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	106	106	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	96	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	66	59	57-124	11	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	58	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	63	55	52-113	13	30
Isophorone	1	U	1.	5	ug/l	96	96	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	81	81	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	84	85	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	101	98	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	99	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	79	79	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	100	100	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	98	98	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	51	52	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	92	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	102	102	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	84	53-110	1	30
Phenol	1	U	1.	5	ug/l	39	41	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	79	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	81-113	1	30
Batch number: 11112WAK026	Sample number(s): 6264829									
Acenaphthene	0.010	U	0.010	0.050	ug/l	92	95	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	89	92	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	90	93	66-111	3	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	93	95	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	90	96	60-127	7	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	93	96	69-123	3	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	99	113	57-131	13	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	100	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	57	60	40-138	6	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	77	79	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	92	98	76-116	6	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	92	107	55-134	16	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	65	65	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	46	48	40-119	4	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	100	110	57-154	9	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	90	93	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	92	95	75-114	4	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	96	110	69-124	14	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	84	82	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	73*	71*	75-115	3	30
Naphthalene	0.030	U	0.030	0.050	ug/l	81	78	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63	68	36-89	7	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	101	107	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	91	94	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	97	101	69-118	4	30
Batch number: 11117SLB026	Sample number(s): 6264815-6264821,6264823-6264828									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	101		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	112		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	141		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	121		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	102		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	125		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	85		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	125		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	123		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 11118SLC026	Sample number(s): 6264815-6264821,6264823-6264828									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	17 U		17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	79		34-94		
Anthracene	17 U		17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzo(a)anthracene	17 U		17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17 U		17.	170	ug/kg	105		69-122		
Benzo(b)fluoranthene	17 U		17.	170	ug/kg	112		61-127		
Benzo(g,h,i)perylene	17 U		17.	170	ug/kg	97		65-122		
Benzo(k)fluoranthene	17 U		17.	170	ug/kg	102		67-125		
Benzoic acid	170 U		170.	500	ug/kg	98		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17 U		17.	170	ug/kg	99		79-117		
Butylbenzylphthalate	17 U		17.	170	ug/kg	106		75-115		
Di-n-butylphthalate	17 U		17.	170	ug/kg	96		79-112		
Carbazole	17 U		17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33 U		33.	170	ug/kg	95		74-119		
4-Chloroaniline	67 U		67.	170	ug/kg	56		10-110		
bis(2-Chloroethoxy)methane	17 U		17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17 U		17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17 U		17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17 U		17.	170	ug/kg	98		49-128		
2-Chlorophenol	17 U		17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33 U		33.	170	ug/kg	99		79-110		
Chrysene	17 U		17.	170	ug/kg	102		76-113		
Dibenz(a,h)anthracene	17 U		17.	170	ug/kg	98		70-128		
Dibenzofuran	17 U		17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17 U		17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17 U		17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17 U		17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	69		24-101		
2,4-Dichlorophenol	17 U		17.	170	ug/kg	99		75-111		
Diethylphthalate	17 U		17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33 U		33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33 U		33.	170	ug/kg	100		70-130		
Dimethylphthalate	17 U		17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	110		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	118		37-120		
2,4-Dinitrotoluene	33 U		33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17 U		17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17 U		17.	170	ug/kg	107		77-111		
bis(2-Ethylhexyl)phthalate	17 U		17.	330	ug/kg	105		75-117		
Fluoranthene	17 U		17.	170	ug/kg	92		78-116		
Fluorene	17 U		17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17 U		17.	170	ug/kg	101		78-116		
Hexachlorobutadiene	67 U		67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	114		46-115		
Hexachloroethane	17 U		17.	170	ug/kg	86		68-105		
Indeno(1,2,3-cd)pyrene	17 U		17.	170	ug/kg	97		64-119		
Isophorone	17 U		17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17 U		17.	170	ug/kg	94		74-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylnaphthalene	17	U	17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	94		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	80		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	117		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	94		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11118SLH026	Sample number(s): 6264816-6264821									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	77		70-130		
Batch number: 11120SLB026	Sample number(s): 6264828									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 111180034A	Sample number(s): 6264816-6264821,6264828									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	110	109	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	110	108	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	112		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	118		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	115		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
Batch number: 111160003A	Sample number(s): 6264816-6264821,6264828									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	100		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111110024A	Sample number(s): 6264829									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	96*	35-84	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	90	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	114	112	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111160021A	Sample number(s): 6264815-6264821,6264823-6264828									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	80	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	84		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111180035A	Sample number(s): 6264816-6264821,6264823-6264825,6264828									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	79		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 111120005A	Sample number(s): 6264816-6264818									
Diethylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	113		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	112		75-125		
Batch number: 111120006A	Sample number(s): 6264819-6264821,6264828									
Diethylene glycol	5.0	U	5.0	13	mg/kg	112		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	114		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	120		75-125		
Batch number: 111150026A	Sample number(s): 6264816-6264821,6264828									
Ethanol	100 U		100.	500	ug/kg	101		71-129		
Isopropanol	100 U		100.	500	ug/kg	99		75-125		
Methanol	100 U		100.	500	ug/kg	102		68-129		
Batch number: 111230016A	Sample number(s): 6264816-6264821,6264828									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111165708006	Sample number(s): 6264815-6264828								
Aluminum	4.88 U	4.88	19.4	mg/kg	98		61-110		
Boron	0.864 U	0.864	4.85	mg/kg	95		78-110		
Calcium	5.95 U	5.95	19.4	mg/kg	95		88-110		
Iron	4.57 U	4.57	19.4	mg/kg	90		61-110		
Lithium	0.27 J	0.21	1.9	mg/kg	103		80-120		
Magnesium	2.47 U	2.47	9.71	mg/kg	97		82-110		
Manganese	0.0757 U	0.0757	0.485	mg/kg	96		89-112		
Phosphorus	1.20 J	0.544	9.71	mg/kg	104		80-120		
Potassium	17.5 U	17.5	48.5	mg/kg	95		78-110		
Sodium	36.2 U	36.2	97.1	mg/kg	104		87-110		
Strontium	0.0602 U	0.0602	0.485	mg/kg	97		86-110		
Tin	1.37 J	0.971	9.71	mg/kg	92		90-114		
Titanium	0.369 U	0.369	0.971	mg/kg	99		80-120		
Zirconium	0.816 U	0.816	4.85	mg/kg	99		80-120		
Batch number: 111165711006	Sample number(s): 6264815-6264828								
Mercury	0.0028 U	0.0028	0.0994	mg/kg	107		88-123		
Batch number: 111171848001	Sample number(s): 6264829								
Aluminum	0.0834 U	0.0834	0.200	mg/l	100	98	90-112	2	20
Boron	0.0156 J	0.0138	0.0500	mg/l	100	98	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	106	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	108	106	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	101	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	104	102	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	105	103	90-110	2	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	103	102	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	103	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	104	103	80-120	1	20
Batch number: 111176050001A	Sample number(s): 6264829								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	101	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	96	99	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	100	103	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	98	100	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	97	109	90-118	11	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	102	87-113	6	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	105	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	95	103	90-115	8	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	105	90-113	6	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	98	105	90-115	6	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	90	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	96	107	89-116	11	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	99	106	90-116	7	20
Batch number: 111176050001B	Sample number(s): 6264829								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	103	85-114	0	20
Batch number: 111176050001C	Sample number(s): 6264829								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	105	89-115	6	20

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Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111176050001D	Sample number(s): 6264829								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 111181026002A	Sample number(s): 6264815-6264817,6264819-6264828								
Antimony	0.0600 U	0.0600	0.200	mg/kg	100		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	107		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	108		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	116		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	116		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	113		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	109		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	108		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	108		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	108		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	106		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	103		81-112		
Batch number: 111181026002B	Sample number(s): 6264815-6264817,6264819-6264828								
Selenium	0.0400 U	0.0400	0.400	mg/kg	110		83-111		
Batch number: 111181026002C	Sample number(s): 6264815-6264817,6264819-6264828								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	122		78-122		
Batch number: 111181026002D	Sample number(s): 6264815-6264817,6264819-6264828								
Barium	0.108 U	0.108	0.400	mg/kg	104		81-111		
Batch number: 111185713005	Sample number(s): 6264829								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	102	87	80-120	15	20
Batch number: 111231026001A	Sample number(s): 6264818								
Antimony	0.0600 U	0.0600	0.200	mg/kg	108		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	99		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	99		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.142 J	0.0660	0.400	mg/kg	99		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	93		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	94		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	97		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	94		83-110		
Vanadium	0.0876 J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111231026001B	Sample number(s): 6264818								
Selenium	0.0400 U	0.0400	0.400	mg/kg	103		83-111		
Batch number: 111231026001C	Sample number(s): 6264818								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 111231026001D	Sample number(s): 6264818								
Barium	0.108 U	0.108	0.400	mg/kg	96		81-111		
Batch number: 11111196401A	Sample number(s): 6264829								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	102	103	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11115196701A	Sample number(s): 6264829									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11115196902C	Sample number(s): 6264829									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	102	95	90-110	7	20
Batch number: 11118102201B	Sample number(s): 6264816-6264820,6264822,6264828									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11124243201A	Sample number(s): 6264815-6264820,6264822-6264828									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 11124495201B	Sample number(s): 6264815-6264820,6264822-6264826									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11125495201A	Sample number(s): 6264815-6264820,6264822-6264827									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11125495201B	Sample number(s): 6264828									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11126126201A	Sample number(s): 6264827-6264828									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11112020001A	Sample number(s): 6264829									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11116039401A	Sample number(s): 6264815-6264819,6264822-6264826									
18a pH by 9045C						100		95-105		
Batch number: 11116039401B	Sample number(s): 6264827-6264828									
18a pH by 9045C						100		95-105		
Batch number: 11116182101A	Sample number(s): 6264815-6264819,6264822-6264826									
32a OR Potential						99		98-102		
Batch number: 11116182101B	Sample number(s): 6264827-6264828									
32a OR Potential						99		98-102		
Batch number: 11119162401B	Sample number(s): 6264815,6264823-6264827									
Moisture Content by 160.3						100		80-120		
Batch number: 11125162401A	Sample number(s): 6264816-6264822,6264828									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 11117SLB026	Sample number(s): 6264815-6264821,6264823-6264828 UNSPK: 6264819								
Acenaphthene	84	96	63-105	13	30				
Acenaphthylene	82	90	67-114	8	30				
Anthracene	83	90	60-122	8	30				
Benzo(a)anthracene	86	108	59-128	23	30				
Benzo(a)pyrene	93	114	45-138	18	30				
Benzo(b)fluoranthene	83	137	43-155	41*	30				
Benzo(g,h,i)perylene	52	59	33-141	10	30				
Benzo(k)fluoranthene	112	110	42-144	2	30				
Butylbenzylphthalate	0*	98	57-173	200*	30				
Di-n-butylphthalate	0*	104	65-148	200*	30				
Chrysene	73	101	48-134	26	30				
Dibenz(a,h)anthracene	64	67	22-133	4	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	97	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	400*	146	39-167	93*	30				
Fluoranthene	84	123	26-166	30	30				
Fluorene	86	96	66-122	11	30				
Indeno(1,2,3-cd)pyrene	65	71	21-143	10	30				
1-Methylnaphthalene	85	93	72-123	9	30				
2-Methylnaphthalene	77	86	64-103	10	30				
Naphthalene	84	91	61-102	8	30				
N-Nitrosodimethylamine	80	90	48-113	12	30				
Di-n-octylphthalate	216*	216*	40-192	0	30				
Phenanthrene	71	85	12-165	15	30				
Pyrene	56	86	15-153	33*	30				
Batch number: 11118SLC026	Sample number(s): 6264815-6264821,6264823-6264828 UNSPK: 6264819								
Acenaphthene	89	92	75-115	4	30				
Acenaphthylene	91	96	81-110	6	30				
Aniline	41	55	35-95	29	30				
Anthracene	92	91	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	94	96	65-122	2	30				
Benzo(a)pyrene	93	98	57-126	6	30				
Benzo(b)fluoranthene	95	96	59-125	2	30				
Benzo(g,h,i)perylene	100	103	59-127	4	30				
Benzo(k)fluoranthene	95	99	56-132	5	30				
Benzoic acid	47	51	10-173	8	30				
Benzyl alcohol	87	83	67-115	4	30				
4-Bromophenyl-phenylether	103	100	67-129	3	30				
Butylbenzylphthalate	101	105	73-134	5	30				
Di-n-butylphthalate	93	93	67-123	1	30				
Carbazole	86	85	64-120	1	30				
4-Chloro-3-methylphenol	83	84	76-110	1	30				
4-Chloroaniline	38	54	23-95	35*	30				
bis(2-Chloroethoxy)methane	94	93	75-104	0	30				
bis(2-Chloroethyl)ether	89	89	60-116	2	30				
bis(2-Chloroisopropyl)ether	86	86	55-142	1	30				
2-Chloronaphthalene	73	81	50-141	11	30				
2-Chlorophenol	88	90	73-121	3	30				
4-Chlorophenyl-phenylether	89	93	80-109	5	30				
Chrysene	97	99	62-128	2	30				
Dibenz(a,h)anthracene	99	102	65-125	3	30				
Dibenzofuran	89	93	71-112	5	30				
1,2-Dichlorobenzene	87	89	66-108	2	30				
1,3-Dichlorobenzene	88	88	63-109	1	30				
1,4-Dichlorobenzene	88	87	70-100	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	48	71	16-119	40*	30				
2,4-Dichlorophenol	90	94	78-117	4	30				
Diethylphthalate	86	90	66-118	5	30				
2,4-Dimethylphenol	92	93	78-110	2	30				
3,5-Dimethylphenol	90	91	70-130	2	30				
Dimethylphthalate	90	93	64-118	3	30				
4,6-Dinitro-2-methylphenol	56	39	24-116	35*	30				
2,4-Dinitrophenol	33	21	20-143	45*	30				
2,4-Dinitrotoluene	81	86	73-113	6	30				
2,6-Dinitrotoluene	88	92	69-123	6	30				
1,2-Diphenylhydrazine	110	109	71-129	0	30				
bis(2-Ethylhexyl)phthalate	103	115	63-122	11	30				
Fluoranthene	84	83	73-112	1	30				
Fluorene	84	88	77-111	4	30				
Hexachlorobenzene	95	97	77-114	3	30				
Hexachlorobutadiene	102	105	62-120	4	30				
Hexachlorocyclopentadiene	40	30	10-153	26	30				
Hexachloroethane	83	77	57-109	6	30				
Indeno(1,2,3-cd)pyrene	98	102	61-126	5	30				
Isophorone	91	91	73-102	0	30				
1-Methylnaphthalene	88	89	73-112	3	30				
2-Methylnaphthalene	85	86	76-114	2	30				
2-Methylphenol	82	85	75-111	4	30				
4-Methylphenol	78	82	71-111	6	30				
Naphthalene	91	92	72-116	1	30				
2-Nitroaniline	90	95	67-125	7	30				
3-Nitroaniline	75	83	59-122	11	30				
4-Nitroaniline	63	75	52-112	17	30				
Nitrobenzene	97	97	72-106	1	30				
2-Nitrophenol	93	93	74-115	1	30				
4-Nitrophenol	73	76	54-113	4	30				
N-Nitroso-di-n-propylamine	85	83	60-116	2	30				
N-Nitrosodimethylamine	88	90	47-116	3	30				
N-Nitrosodiphenylamine	103	102	86-145	1	30				
Di-n-octylphthalate	103	103	56-126	0	30				
Pentachlorophenol	81	81	28-127	0	30				
Phenanthrene	91	92	65-125	2	30				
Phenol	81	85	58-126	5	30				
Pyrene	97	102	74-126	6	30				
1,2,4-Trichlorobenzene	96	99	72-115	4	30				
2,4,5-Trichlorophenol	88	94	78-109	6	30				
2,4,6-Trichlorophenol	96	97	77-115	2	30				
Batch number: 11118SLH026	Sample number(s): 6264816-6264821 UNSPK: 6264819								
N-Nitrosodimethylamine	67*	67*	70-130	1	30				
Batch number: 11120SLB026	Sample number(s): 6264828 UNSPK: P266014								
N-Nitrosodimethylamine	101	68*	70-130	35*	30				
Batch number: 111180034A	Sample number(s): 6264816-6264821,6264828 UNSPK: 6264819								
4-Amino-2,6-Dinitrotoluene	110	110	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	109	80-137	1	50				
1,3-Dinitrobenzene	110	109	38-166	1	50				

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Quality Control Summary

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Reported: 05/20/11 at 11:14 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	114	112	80-127	2	50				
HMX	98	97	63-128	1	50				
Nitrobenzene	107	103	80-125	3	50				
Nitroglycerin	103	103	80-120	0	50				
2-Nitrotoluene	110	107	80-122	3	50				
3-Nitrotoluene	111	110	72-119	1	50				
4-Nitrotoluene	106	104	80-125	1	50				
PETN	125*	124*	80-121	1	50				
RDX	96	96	75-129	0	50				
Tetryl	85	90	55-174	6	50				
1,3,5-Trinitrobenzene	108	107	82-126	1	50				
2,4,6-Trinitrotoluene	108	108	82-130	1	50				
Batch number: 111160003A	Sample number(s): 6264816-6264821,6264828 UNSPK: 6264819								
25a Formaldehyde 8315A	93	97	80-120	4	50				
Batch number: 111160021A	Sample number(s): 6264815-6264821,6264823-6264828 UNSPK: 6264819								
PCB-1016	89	98	29-146	10	50				
PCB-1260	106	104	39-149	1	50				
Batch number: 111180035A	Sample number(s): 6264816-6264821,6264823-6264825,6264828 UNSPK: 6264819								
EFH (C12-C14)	107	114	49-123	6	20				
EFH (C15-C20)	237*	350*	49-123	38*	20				
EFH (C21-C30)	-12 (2)	111 (2)	49-123	6	20				
EFH (C30 - C40)	-1388 (2)	-1500 (2)	49-123	2	20				
EFH (C8-C11)	51	62	49-123	19	20				
Batch number: 111120005A	Sample number(s): 6264816-6264818 UNSPK: P262830								
Diethylene glycol	91	98	59-109	7	20				
Ethylene glycol	82	85	63-107	4	20				
Propylene glycol	90	89	63-107	1	20				
Batch number: 111120006A	Sample number(s): 6264819-6264821,6264828 UNSPK: 6264819								
Diethylene glycol	105	101	59-109	4	20				
Ethylene glycol	95	95	63-107	0	20				
Propylene glycol	96	89	63-107	7	20				
Batch number: 111150026A	Sample number(s): 6264816-6264821,6264828 UNSPK: 6264819								
Ethanol	73	68	48-130	7	20				
Isopropanol	79	78	12-149	2	20				
Methanol	72	70	43-138	3	20				
Batch number: 111230016A	Sample number(s): 6264816-6264821,6264828 UNSPK: 6264819								
m-Terphenyl	78	79	75-125	1	20				
o-Terphenyl	96	96	75-125	0	20				
p-Terphenyl	92	89	75-125	3	20				
Batch number: 111165708006	Sample number(s): 6264815-6264828 UNSPK: 6264819 BKG: 6264819								
Aluminum	472 (2)	-69 (2)	75-125	5	20	23,000	21,900	5	20
Boron	99	97	84-115	3	20	8.70	8.46	3 (1)	20
Calcium	877 (2)	1377	75-125	18	20	6,120	5,790	6	20

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Reported: 05/20/11 at 11:14 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Iron	-1469 (2)	-4441 (2)	75-125	13	20	24,900	22,500	10	20
Lithium	101	97	82-114	4	20	24.5	23.3	5	20
Magnesium	-292 (2)	-602 (2)	75-125	12	20	5,910	4,880	19	20
Manganese	127 (2)	-77 (2)	75-125	28*	20	348	315	10	20
Phosphorus	114 (2)	-8 (2)	75-125	24*	20	438	384	13	20
Potassium	32 (2)	-16 (2)	75-125	10	20	4,670	3,710	23*	20
Sodium	105	103	75-125	3	20	113	91.7 J	21* (1)	20
Strontium	102	99	75-115	3	20	30.7	29.9	3	20
Tin	86	85	80-110	2	20	2.64 J	2.51 J	5 (1)	20
Titanium	234 (2)	123 (2)	75-125	8	20	1,190	1,150	4	20
Zirconium	89	88	75-125	1	20	0.808 U	1.37 J	200* (1)	20
Batch number: 111165711006	Sample number(s): 6264815-6264828 UNSPK: 6264819 BKG: 6264819								
Mercury	139*	131	65-135	6	20	0.0260 J	0.0348 J	29* (1)	20
Batch number: 111181026002A	Sample number(s): 6264815-6264817,6264819-6264828 UNSPK: 6264819 BKG: 6264819								
Antimony	39*	39*	75-125	2	20	0.290	0.153 J	61* (1)	20
Arsenic	111	176*	75-125	14	20	5.87	4.67	23*	20
Beryllium	119	133*	75-125	4	20	0.712	0.593	18	20
Cadmium	113	127*	75-125	6	20	0.438	0.254	53* (1)	20
Chromium	105	112	75-125	1	20	26.6	21.3	22*	20
Cobalt	119	130*	75-125	5	20	9.04	7.08	24*	20
Copper	127*	140*	75-125	3	20	16.8	14.6	14	20
Lead	211 (2)	281 (2)	75-125	7	20	19.2	13.9	32*	20
Nickel	144*	144*	75-125	1	20	17.2	13.5	24*	20
Silver	121	127*	75-125	2	20	0.0691 J	0.104	40* (1)	20
Thallium	114	121	75-125	2	20	0.305	0.254	18 (1)	20
Vanadium	108 (2)	133 (2)	75-125	4	20	47.3	39.7	17	20
Zinc	183 (2)	249 (2)	75-125	4	20	114	97.4	16	20
Batch number: 111181026002B	Sample number(s): 6264815-6264817,6264819-6264828 UNSPK: 6264819 BKG: 6264819								
Selenium	112	112	75-125	2	20	0.155 J	0.134 J	15 (1)	20
Batch number: 111181026002C	Sample number(s): 6264815-6264817,6264819-6264828 UNSPK: 6264819 BKG: 6264819								
Molybdenum	116	119	75-125	0	20	0.567	0.453	22* (1)	20
Batch number: 111181026002D	Sample number(s): 6264815-6264817,6264819-6264828 UNSPK: 6264819 BKG: 6264819								
Barium	142 (2)	380 (2)	75-125	15	20	121	96.1	23*	20
Batch number: 111231026001A	Sample number(s): 6264818 UNSPK: P272812 BKG: P272812								
Antimony	43*	43*	75-125	1	20	0.253	0.186 J	30* (1)	20
Arsenic	78	94	75-125	5	20	5.00	5.69	13	20
Beryllium	73*	84	75-125	7	20	0.668	0.695	4	20
Cadmium	80	85	75-125	6	20	0.233	0.254	9 (1)	20
Chromium	87	87	75-125	0	20	26.2	27.4	5	20
Cobalt	87	97	75-125	10	20	8.95	9.50	6	20
Copper	84	108	75-125	11	20	13.8	14.8	7	20
Lead	90	101	75-125	3	20	7.77	8.12	4	20
Nickel	79	118	75-125	15	20	17.5	19.7	12	20
Silver	85	96	75-125	13	20	0.0232 J	0.0475 J	69* (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	84	107	75-125	15	20	0.255	0.329	25* (1)	20
Vanadium	121 (2)	126 (2)	75-125	1	20	46.4	49.6	7	20
Zinc	35 (2)	121 (2)	75-125	13	20	61.0	59.3	3	20
Batch number: 111231026001B	Sample number(s): 6264818 UNSPK: P272812 BKG: P272812								
Selenium	74*	89	75-125	17	20	0.210 J	0.146 J	36* (1)	20
Batch number: 111231026001C	Sample number(s): 6264818 UNSPK: P272812 BKG: P272812								
Molybdenum	85	96	75-125	13	20	0.300	0.339	12 (1)	20
Batch number: 111231026001D	Sample number(s): 6264818 UNSPK: P272812 BKG: P272812								
Barium	90 (2)	120 (2)	75-125	3	20	108	110	1	20
Batch number: 11118102201B	Sample number(s): 6264816-6264820,6264822,6264828 UNSPK: 6264819 BKG: 6264819								
17a Cyanide by 9012B	103		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11124243201A	Sample number(s): 6264815-6264820,6264822-6264828 UNSPK: 6264819 BKG: 6264819								
3a Cr VI by EPA 7199	78		75-125			0.84 J	0.89 J	6 (1)	20
Batch number: 11124495201B	Sample number(s): 6264815-6264820,6264822-6264826 UNSPK: 6264819 BKG: 6264819								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11125495201A	Sample number(s): 6264815-6264820,6264822-6264827 UNSPK: 6264819 BKG: 6264819								
11a Anions by 300.0 - Fluoride	83		80-120			1.5	1.6	8 (1)	20
11a Anions by 300.0 - Nitrate	115		80-120			3.4	3.3	2 (1)	20
Batch number: 11125495201B	Sample number(s): 6264828 UNSPK: P264845 BKG: P264845								
11a Anions by 300.0 - Fluoride	49*		80-120			1.3	1.6	23* (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			1.1 J	1.7	47* (1)	20
Batch number: 11126126201A	Sample number(s): 6264827-6264828 UNSPK: P264845 BKG: P264845								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11116039401A	Sample number(s): 6264815-6264819,6264822-6264826 BKG: 6264819								
18a pH by 9045C						7.80	7.80	0	1
Batch number: 11116039401B	Sample number(s): 6264827-6264828 BKG: P264845								
18a pH by 9045C						6.49	6.50	0	1
Batch number: 11116182101A	Sample number(s): 6264815-6264819,6264822-6264826 BKG: 6264819								
32a OR Potential						449	444	1	6
Batch number: 11116182101B	Sample number(s): 6264827-6264828 BKG: P264845								
32a OR Potential						415	416	0	6
Batch number: 11119162401B	Sample number(s): 6264815,6264823-6264827 BKG: 6264815								
Moisture Content by 160.3						17.1	16.1	6	20
Batch number: 11125162401A	Sample number(s): 6264816-6264822,6264828 BKG: 6264819								
28a Moisture Content by 160.3						6.1	6.9	13	20
Moisture Content by 160.3						6.1	6.9	13	20
Moisture Content by 160.3						6.1	6.9	13	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11112WAJ026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264829	61	36	97	94	94	84
Blank	70	46	98	98	94	86
LCS	66	41	101	97	96	87
LCSD	66	41	96	95	92	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11112WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264829	107	91	85
Blank	91	75	92
LCS	96	78	88
LCSD	101	76	91
Limits:	64-147	68-132	53-129

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11117SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264815	90	82	77
6264816	92	84	81
6264817	96	83	83
6264818	80	63	65
6264819	92	85	65
6264820	88	83	63
6264821	93	86	68
6264823	85	76	71
6264824	95	85	87
6264825	92	84	89
6264826	91	82	86
6264827	89	81	73
6264828	90	81	75
Blank	94	92	95
LCS	92	87	87
MS	88	83	63
MSD	93	86	68
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11118SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6264815	88	92	86	92	96	90

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Surrogate Quality Control

6264816	86	90	82	92	94	88
6264817	28	112	88	70	57	86
6264818	79	83	73	85	92	78
6264819	91	91	83	89	97	94
6264820	0*	0*	0*	0*	0*	1*
6264821	0*	0*	0*	0*	0*	0*
6264823	84	87	80	91	98	85
6264824	83	86	86	86	94	84
6264825	84	87	74	92	97	89
6264826	82	84	71	88	96	81
6264827	81	88	78	95	102	90
6264828	81	85	70	87	92	79
Blank	84	84	84	85	85	85
LCS	90	90	90	90	94	89
MS	0*	0*	0*	0*	0*	1*
MSD	0*	0*	0*	0*	0*	0*
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11118SLH026

	N-Nitrosodimethylamine-d6
6264816	174*
6264817	140
6264818	200*
6264819	126
6264820	99
6264821	101
Blank	92
LCS	89
MS	99
MSD	101
Limits:	50-150

Analysis Name: 15a NDMA by 1625C
Batch number: 11120SLB026

	N-Nitrosodimethylamine-d6
6264828	108
Blank	97
LCS	100
MS	112
MSD	118
Limits:	50-150

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111110024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6264829	102	89
Blank	112	114
LCS	104	103

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Surrogate Quality Control

LCSD	109	115
Limits:	30-150	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111160003A

	Butyraldehyde
6264816	93
6264817	93
6264818	96
6264819	92
6264820	94
6264821	93
6264828	92
Blank	88
LCS	91
MS	94
MSD	93
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111160021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6264815	99	102
6264816	100	106
6264817	110	119
6264818	67	54
6264819	100	77
6264820	93	80
6264821	91	75
6264823	93	94
6264824	94	91
6264825	98	107
6264826	101	110
6264827	86	89
6264828	99	80
Blank	94	109
LCS	88	107
LCSD	74	111
MS	93	80
MSD	91	75
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111180034A

	2-Nitro-m-xylene
6264816	99
6264817	107
6264818	98
6264819	111
6264820	108
6264821	104

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Surrogate Quality Control

6264828	111
Blank	110
LCS	111
LCSD	112
MS	108
MSD	104

Limits: 80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111120005A

Tetramethylene glycol

6264816	53
6264817	39
6264818	160*
Blank	115
LCS	108
MS	94
MSD	90

Limits: 29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111120006A

Tetramethylene glycol

6264819	111
6264820	96
6264821	87
6264828	90
Blank	105
LCS	117
MS	96
MSD	87

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111150026A

Acetone

6264816	79
6264817	66
6264818	83
6264819	90
6264820	98
6264821	99
6264828	88
Blank	101
LCS	101
MS	98
MSD	99

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243233
Reported: 05/20/11 at 11:14 AM

Surrogate Quality Control

Batch number: 111180035A

	Chlorobenzene	Orthoterphenyl
6264816	61	95
6264817	64	99
6264818	45	130
6264819	58	100
6264820	78	99
6264821	82	100
6264823	54	92
6264824	74	94
6264825	63	93
6264828	57	96
Blank	82	97
LCS	79	100
MS	78	99
MSD	82	100
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111230016A

	n-Triacontane-d62
6264816	64
6264817	71
6264818	149
6264819	90
6264820	89
6264821	81
6264828	148
Blank	78
LCS	77
MS	89
MSD	81
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1243233 Sample# 6264815-29

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Steve Bruton

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-098-SA8N-SS-0.0-0.5	04.20.11	1245	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-098-SA8N-SS-0.0-0.5	04.20.11	1245	SOIL	NONE	1 SS sleeve			X	X															
SL-101-SA8N-SS-0.0-0.5	04.20.11	1310	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-101-SA8N-SS-0.0-0.5	04.20.11	1310	SOIL	NONE	1 SS sleeve			X	X															
SL-102-SA8N-SS-0.0-0.5	04.20.11	1330	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-102-SA8N-SS-0.0-0.5	04.20.11	1330	SOIL	NONE	1 SS sleeve			X	X															
SL-108-SA8N-SS-0.0-0.5	04.20.11	1350	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-108-SA8N-SS-0.0-0.5	04.20.11	1350	SOIL	NONE	1 SS sleeve			X	X															
SL-120-SA8N-SS-0.0-0.5MS	04.20.11	1005	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	**MS/MSD**
SL-120-SA8N-SS-0.0-0.5MS	04.20.11	1005	SOIL	NONE	2 SS sleeve			X	X															**MS/MSD**
SL-127-SA8N-SS-0.0-0.5	04.20.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-127-SA8N-SS-0.0-0.5	04.20.11	0910	SOIL	NONE	1 SS sleeve			X	X															
SL-128-SA8N-SS-0.0-0.5	04.20.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-128-SA8N-SS-0.0-0.5	04.20.11	0855	SOIL	NONE	1 SS sleeve			X	X															
SL-129-SA8N-SS-0.0-0.5	04.20.11	0835	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-129-SA8N-SS-0.0-0.5	04.20.11	0835	SOIL	NONE	1 SS sleeve			X	X															
SL-136-SA8N-SS-0.0-0.5	04.20.11	0955	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-136-SA8N-SS-0.0-0.5	04.20.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-137-SA8N-SS-0.0-0.5	04.20.11	1025	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-137-SA8N-SS-0.0-0.5	04.20.11	1025	SOIL	NONE	1 SS sleeve			X	X															
DUP05-SA8N-QC-042011	04.20.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP05-SA8N-QC-042011	04.20.11	1010	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) — Date/Time: 04/20/2011 / 1700

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) 4/21/11 1030

Airbill No.(s): 8695 1442 0199, 0214

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Cap# 1243233 sample# 6264815-29

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS							VOCs			SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB07-SA8N-SS-042011	04.20.11	1230	WATER	NONE	7-1 liter ambers			X	X	X															
EB07-SA8N-SS-042011	04.20.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X												
EB07-SA8N-SS-042011	04.20.11	1230	WATER	HNO3	1-500 mL poly	X																			
Relinquished by: (Signature)	Date/Time 04/20/2011 / 1700	Received for Laboratory by: (Signature) 4/21/11 1030																							Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill Nos: 8695 1442 0199																							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2011
Group Number: 1243234
SDG: DX074
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-098-SA8N-SS-0.0-0.5 Soil	6264830
SL-101-SA8N-SS-0.0-0.5 Soil	6264831
SL-102-SA8N-SS-0.0-0.5 Soil	6264832
SL-108-SA8N-SS-0.0-0.5 Soil	6264833
SL-120-SA8N-SS-0.0-0.5 Soil	6264834
SL-120-SA8N-SS-0.0-0.5MS Soil	6264835
SL-120-SA8N-SS-0.0-0.5MSD Soil	6264836
SL-127-SA8N-SS-0.0-0.5 Soil	6264837
SL-128-SA8N-SS-0.0-0.5 Soil	6264838
SL-129-SA8N-SS-0.0-0.5 Soil	6264839
SL-136-SA8N-SS-0.0-0.5 Soil	6264840
SL-137-SA8N-SS-0.0-0.5 Soil	6264841
DUP05-SA8N-QC-042011 Soil	6264842
EB07-SA8N-SS-042011 Water	6264843

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264830
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7401 SDG#: DX074-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264830
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7401 SDG#: DX074-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0429	JQ	0.0168	1.20	1
11031	12378-PeCDD	40321-76-4	0.185	JB	0.0214	6.02	1
11031	123478-HxCDD	39227-28-6	0.118	JB	0.0168	6.02	1
11031	123678-HxCDD	57653-85-7	0.469	JB	0.0180	6.02	1
11031	123789-HxCDD	19408-74-3	0.493	JB	0.0168	6.02	1
11031	1234678-HpCDD	35822-46-9	4.66	JB	0.0224	6.02	1
11031	OCDD	3268-87-9	44.7	B	0.0209	12.0	1
11031	2378-TCDF	51207-31-9	0.177	JB	0.0277	1.20	1
11031	12378-PeCDF	57117-41-6	0.251	JBQ	0.0139	6.02	1
11031	23478-PeCDF	57117-31-4	0.286	JB	0.0144	6.02	1
11031	123478-HxCDF	70648-26-9	0.315	JB	0.0121	6.02	1
11031	123678-HxCDF	57117-44-9	0.180	JB	0.0109	6.02	1
11031	123789-HxCDF	72918-21-9	0.443	J	0.0150	6.02	1
11031	234678-HxCDF	60851-34-5	0.183	JB	0.0118	6.02	1
11031	1234678-HpCDF	67562-39-4	0.993	JB	0.00881	6.02	1
11031	1234789-HpCDF	55673-89-7	0.128	JB	0.0159	6.02	1
11031	OCDF	39001-02-0	2.41	JB	0.0224	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	104	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264830
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7401 SDG#: DX074-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-098-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SS-0.0-0.5

LLI Sample # SW 6264830
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:45

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7401 SDG#: DX074-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/29/2011 20:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264831
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7402 SDG#: DX074-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264831
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7402 SDG#: DX074-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0848	JQ	0.0201	1.17	1
11031	12378-PeCDD	40321-76-4	0.394	JB	0.0267	5.83	1
11031	123478-HxCDD	39227-28-6	0.344	JB	0.0194	5.83	1
11031	123678-HxCDD	57653-85-7	0.874	JB	0.0200	5.83	1
11031	123789-HxCDD	19408-74-3	0.811	JB	0.0189	5.83	1
11031	1234678-HpCDD	35822-46-9	10.3	B	0.0281	5.83	1
11031	OCDD	3268-87-9	101	B	0.0270	11.7	1
11031	2378-TCDF	51207-31-9	0.849	JB	0.0524	1.17	1
11031	12378-PeCDF	57117-41-6	0.598	JB	0.0224	5.83	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0232	5.83	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0228	5.83	1
11031	123678-HxCDF	57117-44-9	0.465	JB	0.0196	5.83	1
11031	123789-HxCDF	72918-21-9	0.453	J	0.0217	5.83	1
11031	234678-HxCDF	60851-34-5	0.570	JB	0.0175	5.83	1
11031	1234678-HpCDF	67562-39-4	3.20	JB	0.0137	5.83	1
11031	1234789-HpCDF	55673-89-7	0.241	JB	0.0200	5.83	1
11031	OCDF	39001-02-0	5.66	JB	0.0252	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264831
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7402 SDG#: DX074-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SS-0.0-0.5

LLI Sample # SW 6264831
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7402 SDG#: DX074-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/29/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264832
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7403 SDG#: DX074-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264832
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7403 SDG#: DX074-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0521	J	0.0167	1.14	1
11031	12378-PeCDD	40321-76-4	0.197	JB	0.0240	5.72	1
11031	123478-HxCDD	39227-28-6	0.215	JB	0.0220	5.72	1
11031	123678-HxCDD	57653-85-7	0.588	JB	0.0220	5.72	1
11031	123789-HxCDD	19408-74-3	0.552	JB	0.0191	5.72	1
11031	1234678-HpCDD	35822-46-9	8.85	B	0.0265	5.72	1
11031	OCDD	3268-87-9	83.1	B	0.0219	11.4	1
11031	2378-TCDF	51207-31-9	0.679	JB	0.0502	1.14	1
11031	12378-PeCDF	57117-41-6	0.362	JB	0.0181	5.72	1
11031	23478-PeCDF	57117-31-4	0.656	JB	0.0190	5.72	1
11031	123478-HxCDF	70648-26-9	0.790	JB	0.0289	5.72	1
11031	123678-HxCDF	57117-44-9	0.217	JB	0.0255	5.72	1
11031	123789-HxCDF	72918-21-9	0.334	J	0.0191	5.72	1
11031	234678-HxCDF	60851-34-5	0.246	JB	0.0152	5.72	1
11031	1234678-HpCDF	67562-39-4	1.38	JB	0.0149	5.72	1
11031	1234789-HpCDF	55673-89-7	0.179	JB	0.0166	5.72	1
11031	OCDF	39001-02-0	2.89	JB	0.0213	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264832
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7403 SDG#: DX074-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA8N-SS-0.0-0.5

LLI Sample # SW 6264832
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7403 SDG#: DX074-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/29/2011 22:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264833
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7404 SDG#: DX074-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264833
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7404 SDG#: DX074-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.287	JQ	0.0369	1.00	1
11031	12378-PeCDD	40321-76-4	2.68	JB	0.0460	5.00	1
11031	123478-HxCDD	39227-28-6	4.32	JB	0.0468	5.00	1
11031	123678-HxCDD	57653-85-7	8.92	B	0.0480	5.00	1
11031	123789-HxCDD	19408-74-3	8.17	B	0.0448	5.00	1
11031	1234678-HpCDD	35822-46-9	203	B	0.110	5.00	1
11031	OCDD	3268-87-9	1,940	B	0.110	10.0	1
11031	2378-TCDF	51207-31-9	0.782	JB	0.0675	1.00	1
11031	12378-PeCDF	57117-41-6	0.700	JB	0.0320	5.00	1
11031	23478-PeCDF	57117-31-4	2.04	JB	0.0312	5.00	1
11031	123478-HxCDF	70648-26-9	2.06	JB	0.0371	5.00	1
11031	123678-HxCDF	57117-44-9	2.24	JB	0.0344	5.00	1
11031	123789-HxCDF	72918-21-9	0.647	J	0.0280	5.00	1
11031	234678-HxCDF	60851-34-5	2.80	JB	0.0255	5.00	1
11031	1234678-HpCDF	67562-39-4	34.3	B	0.123	5.00	1
11031	1234789-HpCDF	55673-89-7	2.32	JBQ	0.130	5.00	1
11031	OCDF	39001-02-0	66.5	B	0.0643	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264833
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7404 SDG#: DX074-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA8N-SS-0.0-0.5

LLI Sample # SW 6264833
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 13:50

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7404 SDG#: DX074-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/29/2011 23:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264834
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264834
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0445	J	0.0261	1.06	1
11031	12378-PeCDD	40321-76-4	0.395	JBQ	0.0530	5.28	1
11031	123478-HxCDD	39227-28-6	1.02	JB	0.0527	5.28	1
11031	123678-HxCDD	57653-85-7	4.88	JB	0.0573	5.28	1
11031	123789-HxCDD	19408-74-3	2.05	JB	0.0526	5.28	1
11031	1234678-HpCDD	35822-46-9	166	B	0.130	5.28	1
11031	OCDD	3268-87-9	2,070	B	0.101	10.6	1
11031	2378-TCDF	51207-31-9	0.453	JB	0.117	1.06	1
11031	12378-PeCDF	57117-41-6	0.883	JB	0.0397	5.28	1
11031	23478-PeCDF	57117-31-4	1.59	JB	0.0411	5.28	1
11031	123478-HxCDF	70648-26-9	2.27	JB	0.0565	5.28	1
11031	123678-HxCDF	57117-44-9	0.970	JB	0.0523	5.28	1
11031	123789-HxCDF	72918-21-9	0.689	J	0.0422	5.28	1
11031	234678-HxCDF	60851-34-5	0.948	JB	0.0365	5.28	1
11031	1234678-HpCDF	67562-39-4	15.0	B	0.0957	5.28	1
11031	1234789-HpCDF	55673-89-7	1.51	JBQ	0.103	5.28	1
11031	OCDF	39001-02-0	40.1	B	0.0668	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264834
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264834
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/30/2011 00:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264835
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264835
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.0		0.0314	1.05	1
11031	12378-PeCDD	40321-76-4	103	B	0.0586	5.24	1
11031	123478-HxCDD	39227-28-6	102	B	0.0692	5.24	1
11031	123678-HxCDD	57653-85-7	109	B	0.0771	5.24	1
11031	123789-HxCDD	19408-74-3	104	B	0.0583	5.24	1
11031	1234678-HpCDD	35822-46-9	314	B	0.158	5.24	1
11031	OCDD	3268-87-9	2,920	B	0.125	10.5	1
11031	2378-TCDF	51207-31-9	22.2	B	0.123	1.05	1
11031	12378-PeCDF	57117-41-6	99.4	B	0.0536	5.24	1
11031	23478-PeCDF	57117-31-4	100	B	0.0532	5.24	1
11031	123478-HxCDF	70648-26-9	97.8	B	0.123	5.24	1
11031	123678-HxCDF	57117-44-9	95.5	B	0.122	5.24	1
11031	123789-HxCDF	72918-21-9	96.5		0.0610	5.24	1
11031	234678-HxCDF	60851-34-5	98.0	B	0.0590	5.24	1
11031	1234678-HpCDF	67562-39-4	123	B	0.141	5.24	1
11031	1234789-HpCDF	55673-89-7	101	B	0.106	5.24	1
11031	OCDF	39001-02-0	247	B	0.0625	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	28	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	32	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264835
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264835
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/30/2011 01:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264836
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264836
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.6		0.0330	1.06	1
11031	12378-PeCDD	40321-76-4	102	B	0.0573	5.32	1
11031	123478-HxCDD	39227-28-6	106	B	0.0761	5.32	1
11031	123678-HxCDD	57653-85-7	110	B	0.0785	5.32	1
11031	123789-HxCDD	19408-74-3	105	B	0.0729	5.32	1
11031	1234678-HpCDD	35822-46-9	336	B	0.159	5.32	1
11031	OCDD	3268-87-9	3,360	B	0.125	10.6	1
11031	2378-TCDF	51207-31-9	22.2	B	0.143	1.06	1
11031	12378-PeCDF	57117-41-6	105	B	0.0477	5.32	1
11031	23478-PeCDF	57117-31-4	100	B	0.0508	5.32	1
11031	123478-HxCDF	70648-26-9	98.4	B	0.0754	5.32	1
11031	123678-HxCDF	57117-44-9	100	B	0.0755	5.32	1
11031	123789-HxCDF	72918-21-9	95.9		0.0816	5.32	1
11031	234678-HxCDF	60851-34-5	98.5	B	0.0708	5.32	1
11031	1234678-HpCDF	67562-39-4	122	B	0.0733	5.32	1
11031	1234789-HpCDF	55673-89-7	99.1	B	0.100	5.32	1
11031	OCDF	39001-02-0	248	B	0.0568	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264836
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SS-0.0-0.5

LLI Sample # SW 6264836
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:05

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7405 SDG#: DX074-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/30/2011 02:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264837
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7406 SDG#: DX074-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264837
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7406 SDG#: DX074-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.135	JQ	0.0258	1.07	1
11031	12378-PeCDD	40321-76-4	0.549	JB	0.0428	5.34	1
11031	123478-HxCDD	39227-28-6	0.526	JB	0.0372	5.34	1
11031	123678-HxCDD	57653-85-7	1.39	JB	0.0386	5.34	1
11031	123789-HxCDD	19408-74-3	1.42	JB	0.0378	5.34	1
11031	1234678-HpCDD	35822-46-9	34.1	B	0.0646	5.34	1
11031	OCDD	3268-87-9	376	B	0.0742	10.7	1
11031	2378-TCDF	51207-31-9	0.645	JB	0.0667	1.07	1
11031	12378-PeCDF	57117-41-6	1.28	JB	0.0298	5.34	1
11031	23478-PeCDF	57117-31-4	1.03	JB	0.0313	5.34	1
11031	123478-HxCDF	70648-26-9	0.767	JB	0.0265	5.34	1
11031	123678-HxCDF	57117-44-9	0.581	JB	0.0251	5.34	1
11031	123789-HxCDF	72918-21-9	0.563	J	0.0308	5.34	1
11031	234678-HxCDF	60851-34-5	0.495	JB	0.0267	5.34	1
11031	1234678-HpCDF	67562-39-4	2.59	JB	0.0511	5.34	1
11031	1234789-HpCDF	55673-89-7	0.402	JB	0.0771	5.34	1
11031	OCDF	39001-02-0	6.16	JB	0.0494	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264837
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7406 SDG#: DX074-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SS-0.0-0.5

LLI Sample # SW 6264837
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7406 SDG#: DX074-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	04/30/2011 03:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264838
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7407 SDG#: DX074-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264838
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7407 SDG#: DX074-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0339	JQ	0.0171	1.20	1
11031	12378-PeCDD	40321-76-4	0.221	JB	0.0315	5.99	1
11031	123478-HxCDD	39227-28-6	0.310	JBQ	0.0446	5.99	1
11031	123678-HxCDD	57653-85-7	1.04	JB	0.0450	5.99	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0448	5.99	1
11031	1234678-HpCDD	35822-46-9	19.4	B	0.0576	5.99	1
11031	OCDD	3268-87-9	210	B	0.0434	12.0	1
11031	2378-TCDF	51207-31-9	0.346	JB	0.0720	1.20	1
11031	12378-PeCDF	57117-41-6	0.434	JB	0.0286	5.99	1
11031	23478-PeCDF	57117-31-4	0.672	JB	0.0275	5.99	1
11031	123478-HxCDF	70648-26-9	0.539	JB	0.0365	5.99	1
11031	123678-HxCDF	57117-44-9	0.226	JQ	0.0338	5.99	1
11031	123789-HxCDF	72918-21-9	0.433	JB	0.0370	5.99	1
11031	234678-HxCDF	60851-34-5	0.248	JB	0.0322	5.99	1
11031	1234678-HpCDF	67562-39-4	2.60	JB	0.0258	5.99	1
11031	1234789-HpCDF	55673-89-7	0.246	JB	0.0328	5.99	1
11031	OCDF	39001-02-0	6.06	JB	0.0225	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264838
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7407 SDG#: DX074-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SS-0.0-0.5

LLI Sample # SW 6264838
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7407 SDG#: DX074-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/05/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264839
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7408 SDG#: DX074-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264839
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7408 SDG#: DX074-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133	U	0.0133	1.07	1
11031	12378-PeCDD	40321-76-4	0.116	JBQ	0.0352	5.37	1
11031	123478-HxCDD	39227-28-6	0.0936	JB	0.0363	5.37	1
11031	123678-HxCDD	57653-85-7	0.401	JB	0.0373	5.37	1
11031	123789-HxCDD	19408-74-3	0.465	JB	0.0350	5.37	1
11031	1234678-HpCDD	35822-46-9	5.61	B	0.0329	5.37	1
11031	OCDD	3268-87-9	65.2	B	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	1.96	B	0.123	1.07	1
11650	2378-TCDF-Conf	51207-31-9	1.95	B	0.0467	1.07	1
11031	12378-PeCDF	57117-41-6	1.17	JB	0.0452	5.37	1
11031	23478-PeCDF	57117-31-4	2.09	JB	0.0456	5.37	1
11031	123478-HxCDF	70648-26-9	2.72	JB	0.0532	5.37	1
11031	123678-HxCDF	57117-44-9	0.847	J	0.0506	5.37	1
11031	123789-HxCDF	72918-21-9	0.376	JB	0.0569	5.37	1
11031	234678-HxCDF	60851-34-5	0.485	JB	0.0498	5.37	1
11031	1234678-HpCDF	67562-39-4	1.54	JB	0.0297	5.37	1
11031	1234789-HpCDF	55673-89-7	0.150	JBQ	0.0392	5.37	1
11031	OCDF	39001-02-0	1.52	JB	0.0372	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264839
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7408 SDG#: DX074-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SS-0.0-0.5

LLI Sample # SW 6264839
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 08:35

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7408 SDG#: DX074-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/05/2011 02:10	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11122002	05/10/2011 07:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264840
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7409 SDG#: DX074-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264840
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7409 SDG#: DX074-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0161	JQ	0.0127	1.19	1
11031	12378-PeCDD	40321-76-4	0.107	JBQ	0.0194	5.97	1
11031	123478-HxCDD	39227-28-6	0.106	JB	0.0193	5.97	1
11031	123678-HxCDD	57653-85-7	0.411	JBQ	0.0214	5.97	1
11031	123789-HxCDD	19408-74-3	0.341	JBQ	0.0180	5.97	1
11031	1234678-HpCDD	35822-46-9	6.89	B	0.0283	5.97	1
11031	OCDD	3268-87-9	84.5	B	0.0265	11.9	1
11031	2378-TCDF	51207-31-9	0.120	JBQ	0.0218	1.19	1
11031	12378-PeCDF	57117-41-6	0.146	JBQ	0.0103	5.97	1
11031	23478-PeCDF	57117-31-4	0.243	JB	0.0116	5.97	1
11031	123478-HxCDF	70648-26-9	0.472	JB	0.0323	5.97	1
11031	123678-HxCDF	57117-44-9	0.222	JBQ	0.0266	5.97	1
11031	123789-HxCDF	72918-21-9	0.191	J	0.0157	5.97	1
11031	234678-HxCDF	60851-34-5	0.231	JB	0.0123	5.97	1
11031	1234678-HpCDF	67562-39-4	1.06	JB	0.0159	5.97	1
11031	1234789-HpCDF	55673-89-7	0.162	JBQ	0.0141	5.97	1
11031	OCDF	39001-02-0	2.14	JB	0.0198	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	34	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264840
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7409 SDG#: DX074-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-136-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SS-0.0-0.5

LLI Sample # SW 6264840
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 09:55

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7409 SDG#: DX074-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	05/02/2011 14:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264841
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7410 SDG#: DX074-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264841
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7410 SDG#: DX074-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0807	JQ	0.0223	1.03	1
11031	12378-PeCDD	40321-76-4	0.398	JB	0.0294	5.17	1
11031	123478-HxCDD	39227-28-6	0.489	JBQ	0.0325	5.17	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0353	5.17	1
11031	123789-HxCDD	19408-74-3	1.19	JB	0.0308	5.17	1
11031	1234678-HpCDD	35822-46-9	80.2	B	0.0775	5.17	1
11031	OCDD	3268-87-9	769	B	0.0732	10.3	1
11031	2378-TCDF	51207-31-9	0.925	JB	0.0756	1.03	1
11031	12378-PeCDF	57117-41-6	0.487	JB	0.0277	5.17	1
11031	23478-PeCDF	57117-31-4	2.50	JB	0.0281	5.17	1
11031	123478-HxCDF	70648-26-9	1.26	JB	0.0440	5.17	1
11031	123678-HxCDF	57117-44-9	0.808	JB	0.0403	5.17	1
11031	123789-HxCDF	72918-21-9	0.284	J	0.0233	5.17	1
11031	234678-HxCDF	60851-34-5	1.02	JB	0.0197	5.17	1
11031	1234678-HpCDF	67562-39-4	8.63	B	0.0351	5.17	1
11031	1234789-HpCDF	55673-89-7	0.702	JB	0.0295	5.17	1
11031	OCDF	39001-02-0	27.5	B	0.0255	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264841
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7410 SDG#: DX074-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SS-0.0-0.5

LLI Sample # SW 6264841
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:25

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7410 SDG#: DX074-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117002	05/02/2011 15:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117002	04/27/2011 14:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401B	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264842
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7411 SDG#: DX074-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264842
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7411 SDG#: DX074-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0542	J	0.0192	1.07	1
11031	12378-PeCDD	40321-76-4	0.769	JB	0.0672	5.36	1
11031	123478-HxCDD	39227-28-6	0.939	JB	0.148	5.36	1
11031	123678-HxCDD	57653-85-7	7.23	B	0.155	5.36	1
11031	123789-HxCDD	19408-74-3	2.88	JB	0.147	5.36	1
11031	1234678-HpCDD	35822-46-9	338	B	0.197	5.36	1
11031	OCDD	3268-87-9	3,760	B	0.192	10.7	1
11031	2378-TCDF	51207-31-9	2.51	B	0.298	1.07	1
11650	2378-TCDF-Conf	51207-31-9	0.707	JB	0.0656	1.07	1
11031	12378-PeCDF	57117-41-6	4.85	JB	0.0922	5.36	1
11031	23478-PeCDF	57117-31-4	1.78	JB	0.0907	5.36	1
11031	123478-HxCDF	70648-26-9	2.62	JB	0.0939	5.36	1
11031	123678-HxCDF	57117-44-9	1.29	J	0.0897	5.36	1
11031	123789-HxCDF	72918-21-9	0.876	JB	0.0896	5.36	1
11031	234678-HxCDF	60851-34-5	1.28	JB	0.0861	5.36	1
11031	1234678-HpCDF	67562-39-4	22.2	B	0.0657	5.36	1
11031	1234789-HpCDF	55673-89-7	1.83	JB	0.0797	5.36	1
11031	OCDF	39001-02-0	62.6	B	0.0415	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	68	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264842
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7411 SDG#: DX074-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA8N-QC-042011 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA8N-QC-042011

LLI Sample # SW 6264842
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 10:10

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7411 SDG#: DX074-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/05/2011 08:02	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11122002	05/10/2011 08:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB07-SA8N-SS-042011 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264843
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7412 SDG#: DX074-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.248	U	0.248	1.95	1
10915	12378-PeCDD	40321-76-4	0.389	JQ	0.238	9.76	1
10915	123478-HxCDD	39227-28-6	0.259	U	0.259	9.76	1
10915	123678-HxCDD	57653-85-7	0.328	JBQ	0.274	9.76	1
10915	123789-HxCDD	19408-74-3	0.478	JBQ	0.264	9.76	1
10915	1234678-HpCDD	35822-46-9	3.42	JB	0.461	9.76	1
10915	OCDD	3268-87-9	6.51	JBQ	0.475	19.5	1
10915	2378-TCDF	51207-31-9	0.179	U	0.179	1.95	1
10915	12378-PeCDF	57117-41-6	0.410	JBQ	0.146	9.76	1
10915	23478-PeCDF	57117-31-4	0.612	JBQ	0.132	9.76	1
10915	123478-HxCDF	70648-26-9	1.13	JB	0.202	9.76	1
10915	123678-HxCDF	57117-44-9	0.755	JBQ	0.196	9.76	1
10915	123789-HxCDF	72918-21-9	0.596	JQ	0.203	9.76	1
10915	234678-HxCDF	60851-34-5	1.70	JB	0.192	9.76	1
10915	1234678-HpCDF	67562-39-4	4.52	JBQ	0.262	9.76	1
10915	1234789-HpCDF	55673-89-7	1.12	JB	0.311	9.76	1
10915	OCDF	39001-02-0	3.03	JB	0.576	19.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	44	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	41	28 - 130
13C12-1234678-HpCDD	39	23 - 140
13C12-OCDD	36	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	46	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB07-SA8N-SS-042011 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA8N-SS-042011

LLI Sample # WW 6264843
LLI Group # 1243234
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/20/2011 12:30

Submitted: 04/21/2011 10:30
Reported: 05/18/2011 22:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7412 SDG#: DX074-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130002	05/16/2011 15:08	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	4	11130002	05/11/2011 06:20	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243234
Reported: 05/18/11 at 10:28 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401B	Sample number(s): 6264830,6264837-6264841								
Moisture Content by 160.3					100		80-120		
Batch number: 11125162401A	Sample number(s): 6264831-6264836,6264842								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11117002	Sample number(s): 6264830-6264837,6264840-6264841								
2378-TCDD	0.0214 U	0.0214	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0679 J	0.0211	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0158 J	0.0142	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0295 J	0.0148	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0182 J	0.0133	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.177 J	0.0171	5.00	ng/kg	96		70-140		
OCDD	0.362 J	0.0175	10.0	ng/kg	95		78-144		
2378-TCDF	0.0301 J	0.0271	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0326 J	0.0114	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0750 J	0.0126	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0579 J	0.0154	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0471 J	0.0138	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0148 U	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0496 J	0.0124	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.111 J	0.00780	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0411 J	0.0120	5.00	ng/kg	93		78-138		
OCDF	0.209 J	0.0248	10.0	ng/kg	92		63-170		
Batch number: 11122002	Sample number(s): 6264838-6264839,6264842								
2378-TCDD	0.0172 U	0.0172	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0291 J	0.0152	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0176 J	0.0135	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0563 J	0.0139	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0395 J	0.0129	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.160 J	0.0232	5.00	ng/kg	100		70-140		
OCDD	0.283 J	0.0219	10.0	ng/kg	100		78-144		
2378-TCDF	0.0138 J	0.0129	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0340 J	0.0272	1.00	ng/kg					
12378-PeCDF	0.0402 J	0.00770	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0477 J	0.00730	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0299 J	0.00990	5.00	ng/kg	100		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0587 J	0.0100	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0330 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.0552 J	0.00880	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.0327 J	0.0126	5.00	ng/kg	101		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243234
Reported: 05/18/11 at 10:28 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.0855	J	0.0225	10.0	ng/kg	101		63-170		
Batch number: 11130002	Sample number(s): 6264843									
2378-TCDD	0.179	U	0.179	2.00	pg/l	82		67-158		
12378-PeCDD	0.195	U	0.195	10.0	pg/l	87		70-142		
123478-HxCDD	0.215	U	0.215	10.0	pg/l	88		70-164		
123678-HxCDD	0.297	J	0.228	10.0	pg/l	89		76-134		
123789-HxCDD	0.542	J	0.214	10.0	pg/l	87		64-162		
1234678-HpCDD	2.30	J	0.399	10.0	pg/l	86		70-140		
OCDD	4.78	J	0.353	20.0	pg/l	91		78-144		
2378-TCDF	0.156	U	0.156	2.00	pg/l	95		75-158		
12378-PeCDF	0.287	J	0.107	10.0	pg/l	92		80-134		
23478-PeCDF	0.759	J	0.0963	10.0	pg/l	90		68-160		
123478-HxCDF	0.564	J	0.163	10.0	pg/l	93		72-134		
123678-HxCDF	0.927	J	0.154	10.0	pg/l	90		84-130		
123789-HxCDF	0.165	U	0.165	10.0	pg/l	89		78-130		
234678-HxCDF	1.22	J	0.151	10.0	pg/l	93		70-156		
1234678-HpCDF	3.35	J	0.187	10.0	pg/l	89		82-122		
1234789-HpCDF	0.954	J	0.220	10.0	pg/l	87		78-138		
OCDF	2.21	J	0.404	20.0	pg/l	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401B	Sample number(s): 6264830,6264837-6264841 BKG: P264815								
Moisture Content by 160.3						17.1	16.1	6	20
Batch number: 11125162401A	Sample number(s): 6264831-6264836,6264842 BKG: P264819								
Moisture Content by 160.3						6.1	6.9	13	20
Batch number: 11117002	Sample number(s): 6264830-6264837,6264840-6264841 UNSPK: 6264834								
2378-TCDD	95	96	67-158	3	25				
12378-PeCDD	98	95	70-142	1	25				
123478-HxCDD	97	98	70-164	3	25				
123678-HxCDD	99	98	76-134	1	25				
123789-HxCDD	97	97	64-162	1	25				
1234678-HpCDD	141*	160*	70-140	7	25				
OCDD	405 (2)	605 (2)	78-144	14	25				
2378-TCDF	104	102	75-158	0	25				
12378-PeCDF	94	97	80-134	5	25				
23478-PeCDF	94	92	68-160	0	25				
123478-HxCDF	91	90	72-134	1	25				
123678-HxCDF	90	93	84-130	5	25				
123789-HxCDF	91	89	78-130	1	25				
234678-HxCDF	93	92	70-156	1	25				
1234678-HpCDF	103	101	82-122	1	25				
1234789-HpCDF	95	92	78-138	2	25				
OCDF	99	98	63-170	0	25				
Batch number: 11122002	Sample number(s): 6264838-6264839,6264842 UNSPK: P259080								
2378-TCDD	99	99	67-158	1	25				

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243234
Reported: 05/18/11 at 10:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	101	103	70-142	3	25				
123478-HxCDD	101	104	70-164	4	25				
123678-HxCDD	102	102	76-134	2	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	101	130	70-140	20	25				
OCDD	127	314*	78-144	44*	25				
2378-TCDF	107	99	75-158	3	25				
12378-PeCDF	101	101	80-134	1	25				
23478-PeCDF	102	99	68-160	2	25				
123478-HxCDF	103	101	72-134	1	25				
123678-HxCDF	100	102	84-130	3	25				
123789-HxCDF	102	100	78-130	1	25				
234678-HxCDF	102	103	70-156	2	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	103	102	78-138	0	25				
OCDF	105	108	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11117002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6264830	86	74	67	75	71	61
6264831	81	70	50	58	65	58
6264832	83	71	36	40	67	62
6264833	80	68	47	51	67	66
6264834	82	71	47	51	71	69
6264835	70	59	28	28	59	61
6264836	73	60	62	62	60	61
6264837	77	64	64	68	65	62
6264840	81	72	29	34	67	63
6264841	81	76	35	38	72	70
Blank	49	41	33	36	40	39
MS	70	59	28	28	59	61
MSD	73	60	62	62	60	61
OPR	73	67	59	64	65	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6264830	89	59	49	104	90	88
6264831	74	57	50	97	84	81
6264832	55	59	50	95	85	75
6264833	53	57	45	86	76	76

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243234
Reported: 05/18/11 at 10:28 PM

Surrogate Quality Control

6264834	59	62	49	93	80	81
6264835	32	51	39	77	66	61
6264836	61	53	39	82	70	74
6264837	70	54	40	86	73	78
6264840	45	56	45	92	82	75
6264841	44	63	50	91	80	73
Blank	51	40	37	68	56	56
MS	32	51	39	77	66	61
MSD	61	53	39	82	70	74
OPR	79	65	62	94	78	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6264830	87	89	89	81	74	84
6264831	81	83	83	75	71	82
6264832	75	87	86	77	73	83
6264833	77	79	70	53	73	73
6264834	82	84	76	63	76	78
6264835	58	73	64	53	64	64
6264836	73	76	66	53	65	68
6264837	78	81	69	55	71	74
6264840	71	79	75	65	73	85
6264841	70	78	73	60	79	83
Blank	55	59	62	59	37	50
MS	58	73	64	53	64	64
MSD	73	76	66	53	65	68
OPR	80	81	85	84	64	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6264838	78	78	75	79	80	78
6264839	78	76	75	77	76	74
6264842	81	76	79	79	80	88
Blank	62	62	62	65	67	67
MS	81	79	81	85	83	81
MSD	72	69	66	67	75	74
OPR	68	67	70	75	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6264838	78	74	71	83	80	85
6264839	80	72	69	81	79	79
6264842	81	79	78	86	78	84
Blank	71	61	58	73	65	70
MS	90	79	76	86	82	89
MSD	73	67	65	74	71	81
OPR	82	67	64	81	71	78

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243234
Reported: 05/18/11 at 10:28 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6264838	87	85	79	76	75	80
6264839	80	79	77	75	75	83
6264842	82	84	83	83	77	79
Blank	71	72	71	69	58	63
MS	88	87	86	84	79	88
MSD	81	81	76	77	70	77
OPR	76	78	76	74	63	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6264838						
6264839	78					
6264842	68					
Blank	56					
MS						
MSD						
OPR						
Limits:	24-169					

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11130002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6264843	47	47	44	44	46	48
Blank	81	89	90	90	92	97
OPR	79	87	87	88	89	96
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6264843	41	40	38	73	44	41
Blank	86	84	77	83	86	84
OPR	84	82	77	77	82	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6264843	42	41	39	36	51	46
Blank	83	83	78	72	84	88
OPR	80	82	77	72	82	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
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acct#13013 Cp# 12432334 sample# 626483043

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Steve Brutz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-098-SA8N-SS-0.0-0.5	04.20.11	1245	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-098-SA8N-SS-0.0-0.5	04.20.11	1245	SOIL	NONE	1 SS sleeve			X	X															
SL-101-SA8N-SS-0.0-0.5	04.20.11	1310	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-101-SA8N-SS-0.0-0.5	04.20.11	1310	SOIL	NONE	1 SS sleeve			X	X															
SL-102-SA8N-SS-0.0-0.5	04.20.11	1330	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-102-SA8N-SS-0.0-0.5	04.20.11	1330	SOIL	NONE	1 SS sleeve			X	X															
SL-108-SA8N-SS-0.0-0.5	04.20.11	1350	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-108-SA8N-SS-0.0-0.5	04.20.11	1350	SOIL	NONE	1 SS sleeve			X	X															
SL-120-SA8N-SS-0.0-0.5MS	04.20.11	1005	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-120-SA8N-SS-0.0-0.5MS	04.20.11	1005	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-127-SA8N-SS-0.0-0.5	04.20.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-127-SA8N-SS-0.0-0.5	04.20.11	0910	SOIL	NONE	1 SS sleeve			X	X															
SL-128-SA8N-SS-0.0-0.5	04.20.11	0855	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-128-SA8N-SS-0.0-0.5	04.20.11	0855	SOIL	NONE	1 SS sleeve			X	X															
SL-129-SA8N-SS-0.0-0.5	04.20.11	0835	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-129-SA8N-SS-0.0-0.5	04.20.11	0835	SOIL	NONE	1 SS sleeve			X	X															
SL-136-SA8N-SS-0.0-0.5	04.20.11	0955	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-136-SA8N-SS-0.0-0.5	04.20.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-137-SA8N-SS-0.0-0.5	04.20.11	1025	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-137-SA8N-SS-0.0-0.5	04.20.11	1025	SOIL	NONE	1 SS sleeve			X	X															
DUP05-SA8N-QC-042011	04.20.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP05-SA8N-QC-042011	04.20.11	1010	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/20/2011 / 1700	4/21/11 1030	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0199, 0214	

acct#13013 Cap# 1243234 sample# 6264830-43

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
EB07-SA8N-SS-042011	04.20.11	1230	WATER	NONE	7-1 liter ambers			X	X	X																	
EB07-SA8N-SS-042011	04.20.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X														
EB07-SA8N-SS-042011	04.20.11	1230	WATER	HNO3	1-500 mL poly	X																					
Relinquished by: (Signature)	Date/Time 04/20/2011 / 1700		Received for Laboratory by: (Signature) 4/21/11 1030																							Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No(s) 8695 1442 0199																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/22/2011
Group Number: 1243433
SDG: DE134
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-111-SA8N-SS-0.0-0.5 Soil	6266008
SL-112-SA8N-SS-0.0-0.5 Soil	6266009
SL-115-SA8N-SS-0.0-0.5 Soil	6266010
SL-116-SA8N-SS-0.0-0.5 Soil	6266011
SL-117-SA8N-SS-0.0-0.5 Soil	6266012
SL-118-SA8N-SS-0.0-0.5 Soil	6266013
SL-119-SA8N-SS-0.0-0.5 Soil	6266014
SL-119-SA8N-SS-0.0-0.5MS Soil	6266015
SL-119-SA8N-SS-0.0-0.5MSD Soil	6266016
SL-119-SA8N-SS-0.0-0.5DUP Soil	6266017
SL-125-SA8N-SS-0.0-0.5 Soil	6266018
SL-126-SA8N-SS-0.0-0.5 Soil	6266019
DUP06-SA8N-QC-042111 Soil	6266020
SL-004-SA8N-SB-4.0-5.0 Soil	6266021
SL-004-SA8N-SB-9.0-10.0 Soil	6266022
SL-005-SA8N-SB-4.0-5.0 Soil	6266023
SL-005-SA8N-SB-8.0-9.0 Soil	6266024
SL-006-SA8N-SB-4.0-5.0 Soil	6266025
SL-006-SA8N-SB-8.0-9.0 Soil	6266026
TB-042111 Water	6266027

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	69.6		18.5	37.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	5.1	J	3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	J	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3		5
10138	Chrysene	218-01-9	4.3	J	1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Fluoranthene	206-44-0	5.1	J	3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3		5
10138	Pyrene	129-00-0	3.8	J	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,500	J	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.4		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.4		2
10225	Aroclor 5460	11126-42-4	11		2.3	7.4		2
10225	PCB-1016	12674-11-2	0.74	U	0.74	3.8		2
10225	PCB-1221	11104-28-2	0.74	U	0.74	3.8		2
10225	PCB-1232	11141-16-5	0.74	U	0.74	3.8		2
10225	PCB-1242	53469-21-9	0.74	U	0.74	3.8		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.74	U	0.74	3.8		2
10225	PCB-1254	11097-69-1	4.5		0.74	3.8		2
10225	PCB-1260	11096-82-5	3.3	J	0.88	3.8		2
10225	PCB-1262	37324-23-5	0.74	U	0.74	3.8		2
10225	PCB-1268	11100-14-4	0.74	U	0.74	3.8		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	5.6		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	21		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	57		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.56	22.1		1
07914	Boron	7440-42-8	5.62		0.984	5.53		1
01650	Calcium	7440-70-2	3,460		6.78	22.1		1
01654	Iron	7439-89-6	25,000		5.21	22.1		1
01656	Lithium	7439-93-2	27.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,690		2.81	11.1		1
06958	Manganese	7439-96-5	448		0.0862	0.553		1
10145	Phosphorus	7723-14-0	614		0.619	11.1		1
01662	Potassium	7440-09-7	4,990		19.9	55.3		1
01667	Sodium	7440-23-5	80.4	J	41.2	111		1
07968	Strontium	7440-24-6	25.0		0.0685	0.553		1
06969	Tin	7440-31-5	3.00	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.420	1.11		1
10146	Zirconium	7440-67-7	0.928	U	0.928	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116 J	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.26	0.0902	0.451		2
06126	Barium	7440-39-3	127	0.122	0.451		2
06127	Beryllium	7440-41-7	0.629	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.375	0.0451	0.113		2
06131	Chromium	7440-47-3	21.0	0.135	0.451		2
06132	Cobalt	7440-48-4	7.22	0.0225	0.113		2
06133	Copper	7440-50-8	12.2	0.0744	0.451		2
06135	Lead	7439-92-1	17.8	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.505	0.0564	0.113		2
06139	Nickel	7440-02-0	13.9	0.113	0.451		2
06141	Selenium	7782-49-2	0.144 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0394 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.308	0.0338	0.113		2
06148	Vanadium	7440-62-2	33.8	0.0248	0.113		2
06149	Zinc	7440-66-6	101	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0178 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	490	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 12:07	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 16:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 08:19	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 22:44	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 03:26	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 10:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 02:42	Richard A Shober	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 03:12	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 18:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111170001A	04/27/2011 19:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 09:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1

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Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111170001A	04/27/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 19:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 19:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 12:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 02:58	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:36	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266008
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13401 SDG#: DE134-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13402 SDG#: DE134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	34.5	J	19.0	38.0		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13402 SDG#: DE134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.95	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.93	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.82	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	J	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13402 SDG#: DE134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	780	J	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

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14420 Albemarle Point Place
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13402 SDG#: DE134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	3.2		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	10		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	26		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		5.57	22.1		1
07914	Boron	7440-42-8	5.43	J	0.985	5.54		1
01650	Calcium	7440-70-2	3,430		6.79	22.1		1
01654	Iron	7439-89-6	20,900		5.21	22.1		1
01656	Lithium	7439-93-2	23.7		0.24	2.2		1
01657	Magnesium	7439-95-4	4,130		2.81	11.1		1
06958	Manganese	7439-96-5	343		0.0863	0.554		1
10145	Phosphorus	7723-14-0	447		0.620	11.1		1
01662	Potassium	7440-09-7	4,220		19.9	55.4		1
01667	Sodium	7440-23-5	73.1	J	41.3	111		1
07968	Strontium	7440-24-6	25.4		0.0686	0.554		1
06969	Tin	7440-31-5	2.67	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,010		0.421	1.11		1
10146	Zirconium	7440-67-7	0.930	U	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.73		0.0886	0.443		2
06126	Barium	7440-39-3	133		0.120	0.443		2
06127	Beryllium	7440-41-7	0.715		0.0177	0.111		2

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SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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13402 SDG#: DE134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.289		0.0443	0.111		2
06131	Chromium	7440-47-3	23.9		0.133	0.443		2
06132	Cobalt	7440-48-4	7.59		0.0221	0.111		2
06133	Copper	7440-50-8	12.4		0.0731	0.443		2
06135	Lead	7439-92-1	8.26		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.520		0.0554	0.111		2
06139	Nickel	7440-02-0	15.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.226	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0473	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.369		0.0332	0.111		2
06148	Vanadium	7440-62-2	37.3		0.0244	0.111		2
06149	Zinc	7440-66-6	88.8		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	483		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13402 SDG#: DE134-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 12:24	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 16:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/03/2011 20:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/18/2011 23:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 03:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 03:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 01:57	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 18:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111170001A	04/27/2011 20:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 10:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111170001A	04/27/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1

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Analysis Report

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
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SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266009
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13402 SDG#: DE134-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 19:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 19:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 12:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 03:11	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:38	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	2.1	J	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	110		3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	140		3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	220		3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	90		3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	74		3.7	9.3		5
10138	Chrysene	218-01-9	120		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	25		3.7	9.3		5
10138	Fluoranthene	206-44-0	77		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	88		3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3		5
10138	Pyrene	129-00-0	61		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1

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Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.4		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.4		2
10225	Aroclor 5460	11126-42-4	8.7		2.2	7.4		2
10225	PCB-1016	12674-11-2	0.74	U	0.74	3.8		2
10225	PCB-1221	11104-28-2	0.74	U	0.74	3.8		2
10225	PCB-1232	11141-16-5	0.74	U	0.74	3.8		2
10225	PCB-1242	53469-21-9	0.74	U	0.74	3.8		2

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Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.74	U	0.74	3.8		2
10225	PCB-1254	11097-69-1	0.74	U	0.74	3.8		2
10225	PCB-1260	11096-82-5	5.2		0.87	3.8		2
10225	PCB-1262	37324-23-5	0.74	U	0.74	3.8		2
10225	PCB-1268	11100-14-4	0.74	U	0.74	3.8		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	45	U	45	130		100
10199	EFH (C15-C20)	n.a.	45	U	45	130		100
10199	EFH (C21-C30)	n.a.	340		45	130		100
10199	EFH (C30 - C40)	n.a.	1,600		45	130		100
10199	EFH (C8-C11)	n.a.	45	U	45	130		100
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		5.49	21.8		1
07914	Boron	7440-42-8	5.06	J	0.971	5.45		1
01650	Calcium	7440-70-2	4,330		6.69	21.8		1
01654	Iron	7439-89-6	19,500		5.14	21.8		1
01656	Lithium	7439-93-2	20.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,030		2.77	10.9		1
06958	Manganese	7439-96-5	260		0.0851	0.545		1
10145	Phosphorus	7723-14-0	408		0.611	10.9		1
01662	Potassium	7440-09-7	3,710		19.6	54.5		1
01667	Sodium	7440-23-5	80.0	J	40.7	109		1
07968	Strontium	7440-24-6	22.6		0.0676	0.545		1
06969	Tin	7440-31-5	2.68	J	1.09	10.9		1
06970	Titanium	7440-32-6	958		0.415	1.09		1

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Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	0.916	U	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.95		0.0890	0.445		2
06126	Barium	7440-39-3	81.8		0.120	0.445		2
06127	Beryllium	7440-41-7	0.485		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.322		0.0445	0.111		2
06131	Chromium	7440-47-3	19.0		0.133	0.445		2
06132	Cobalt	7440-48-4	5.45		0.0222	0.111		2
06133	Copper	7440-50-8	10.1		0.0734	0.445		2
06135	Lead	7439-92-1	19.2		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.377		0.0556	0.111		2
06139	Nickel	7440-02-0	11.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.0910	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.264		0.0133	0.111		2
06145	Thallium	7440-28-0	0.212		0.0334	0.111		2
06148	Vanadium	7440-62-2	29.7		0.0245	0.111		2
06149	Zinc	7440-66-6	81.8		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	J	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 12:41	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 16:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 08:51	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 00:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 03:46	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 10:50	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 03:19	Richard A Shober	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 06:06	Tracy A Cole	100
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 19:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 18:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 15:18	Heather E Williams	1

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Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 04:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 19:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 19:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 03:29	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:39	K Robert Caulfeild-James	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266010
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

134-3 SDG#: DE134-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	242	J	198	396		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10		5
10138	Anthracene	120-12-7	4.6	J	2.0	10		5
10138	Benzo(a)anthracene	56-55-3	12		4.0	10		5
10138	Benzo(a)pyrene	50-32-8	18		4.0	10		5
10138	Benzo(b)fluoranthene	205-99-2	24		4.0	10		5
10138	Benzo(g,h,i)perylene	191-24-2	16		4.0	10		5
10138	Benzo(k)fluoranthene	207-08-9	8.1	J	4.0	10		5
10138	Chrysene	218-01-9	15		2.0	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.1	J	4.0	10		5
10138	Fluoranthene	206-44-0	28		4.0	10		5
10138	Fluorene	86-73-7	5.1	J	4.0	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	13		4.0	10		5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10		5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10		5
10138	Naphthalene	91-20-3	4.0	U	4.0	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10		5
10138	Phenanthrene	85-01-8	15		4.0	10		5
10138	Pyrene	129-00-0	19		4.0	10		5
	Reporting limits were raised due to interference from the sample matrix.							
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,600	J	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	12	U	12	40		10
10225	Aroclor 5442	12642-23-8	12	U	12	40		10
10225	Aroclor 5460	11126-42-4	160		12	40		10
10225	PCB-1016	12674-11-2	4.0	U	4.0	20		10
10225	PCB-1221	11104-28-2	4.0	U	4.0	20		10
10225	PCB-1232	11141-16-5	4.0	U	4.0	20		10
10225	PCB-1242	53469-21-9	4.0	U	4.0	20		10

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Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	4.0	U	4.0	20		10
10225	PCB-1254	11097-69-1	4.0	U	4.0	20		10
10225	PCB-1260	11096-82-5	42		4.7	20		10
10225	PCB-1262	37324-23-5	4.0	U	4.0	20		10
10225	PCB-1268	11100-14-4	4.0	U	4.0	20		10
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	12	U	12	36		25
10199	EFH (C15-C20)	n.a.	13	J	12	36		25
10199	EFH (C21-C30)	n.a.	150		12	36		25
10199	EFH (C30 - C40)	n.a.	650		12	36		25
10199	EFH (C8-C11)	n.a.	12	U	12	36		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.05	24.1		1
07914	Boron	7440-42-8	5.32	J	1.07	6.02		1
01650	Calcium	7440-70-2	4,910		7.38	24.1		1
01654	Iron	7439-89-6	17,700		5.67	24.1		1
01656	Lithium	7439-93-2	18.0		0.26	2.4		1
01657	Magnesium	7439-95-4	4,590		3.06	12.0		1
06958	Manganese	7439-96-5	288		0.0939	0.602		1
10145	Phosphorus	7723-14-0	623		0.674	12.0		1
01662	Potassium	7440-09-7	2,690		21.7	60.2		1
01667	Sodium	7440-23-5	104	J	44.9	120		1
07968	Strontium	7440-24-6	23.0		0.0746	0.602		1
06969	Tin	7440-31-5	2.40	J	1.20	12.0		1
06970	Titanium	7440-32-6	948		0.457	1.20		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	1.01	U	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0715	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.29		0.0953	0.477		2
06126	Barium	7440-39-3	92.7		0.129	0.477		2
06127	Beryllium	7440-41-7	0.423		0.0191	0.119		2
06128	Cadmium	7440-43-9	0.474		0.0477	0.119		2
06131	Chromium	7440-47-3	15.5		0.143	0.477		2
06132	Cobalt	7440-48-4	5.05		0.0238	0.119		2
06133	Copper	7440-50-8	10.6		0.0786	0.477		2
06135	Lead	7439-92-1	19.6		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.365		0.0596	0.119		2
06139	Nickel	7440-02-0	11.9		0.119	0.477		2
06141	Selenium	7782-49-2	0.150	J	0.0477	0.477		2
06142	Silver	7440-22-4	0.0525	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.211		0.0357	0.119		2
06148	Vanadium	7440-62-2	29.5		0.0262	0.119		2
06149	Zinc	7440-66-6	133		0.667	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0755	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.3		0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.40	J	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	491		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	16.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 12:58	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 17:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 09:23	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 02:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 03:55	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 10:56	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 03:38	Richard A Shober	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 04:51	Tracy A Cole	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 19:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 19:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 16:03	Heather E Williams	1

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Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 16:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 19:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 19:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 13:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 03:42	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:40	K Robert Caulfeild-James	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266011
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13404 SDG#: DE134-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	84.1		17.5	35.0		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(b)fluoranthene	205-99-2	17	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	24	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	31	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

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Sample Description: SL-117-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7		5
10138	Benzo(a)anthracene	56-55-3	5.4	J	3.5	8.7		5
10138	Benzo(a)pyrene	50-32-8	7.8	J	3.5	8.7		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	J	3.5	8.7		5
10138	Fluoranthene	206-44-0	6.1	J	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	J	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.7		5
10138	Pyrene	129-00-0	6.1	J	3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,300	J	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	4.8		0.41	1.8		1

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SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
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13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	53	U	53	160		25
10199	EFH (C15-C20)	n.a.	53	U	53	160		25
10199	EFH (C21-C30)	n.a.	640		53	160		25
10199	EFH (C30 - C40)	n.a.	2,800		53	160		25
10199	EFH (C8-C11)	n.a.	53	U	53	160		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		5.29	21.1		1
07914	Boron	7440-42-8	4.32	J	0.937	5.26		1
01650	Calcium	7440-70-2	3,740		6.45	21.1		1
01654	Iron	7439-89-6	23,700		4.96	21.1		1
01656	Lithium	7439-93-2	24.3		0.23	2.1		1
01657	Magnesium	7439-95-4	5,480		2.67	10.5		1
06958	Manganese	7439-96-5	295		0.0821	0.526		1
10145	Phosphorus	7723-14-0	529		0.589	10.5		1
01662	Potassium	7440-09-7	4,030		18.9	52.6		1
01667	Sodium	7440-23-5	85.3	J	39.3	105		1
07968	Strontium	7440-24-6	19.5		0.0653	0.526		1
06969	Tin	7440-31-5	2.64	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,190		0.400	1.05		1
10146	Zirconium	7440-67-7	0.884	U	0.884	5.26		1

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SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0883	J	0.0602	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0802	0.401		2
06126	Barium	7440-39-3	113		0.108	0.401		2
06127	Beryllium	7440-41-7	0.610		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.240		0.0401	0.100		2
06131	Chromium	7440-47-3	25.8		0.120	0.401		2
06132	Cobalt	7440-48-4	8.05		0.0201	0.100		2
06133	Copper	7440-50-8	12.9		0.0662	0.401		2
06135	Lead	7439-92-1	11.5		0.0104	0.201		2
06138	Molybdenum	7439-98-7	0.454		0.0501	0.100		2
06139	Nickel	7440-02-0	15.5		0.100	0.401		2
06141	Selenium	7782-49-2	0.144	J	0.0401	0.401		2
06142	Silver	7440-22-4	0.0795	J	0.0120	0.100		2
06145	Thallium	7440-28-0	0.295		0.0301	0.100		2
06148	Vanadium	7440-62-2	41.6		0.0221	0.100		2
06149	Zinc	7440-66-6	177		0.561	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	398		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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13405 SDG#: DE134-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 13:14	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011 17:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 09:56	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 02:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 04:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 03:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 05:16	Tracy A Cole	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 19:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 19:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 16:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1

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SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 04:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 20:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 20:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 14:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 03:48	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:41	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-117-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266012
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13405 SDG#: DE134-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	389		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(b)fluoranthene	205-99-2	26	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	23	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	39	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	46	J	19	390		1
04688	Fluoranthene	206-44-0	23	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							

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Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	27	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol

The recovery of pyrene was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	6.0	J	3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	9.0	J	3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	3.9	J	3.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.2	J	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.7		5

Reporting limits were raised due to interference from the sample matrix.

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

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13406 SDG#: DE134-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,100	J	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.0		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1

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Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	5.7		0.39	2.0		1
10225	PCB-1260	11096-82-5	2.8		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	59	U	59	180		25
10199	EFH (C15-C20)	n.a.	59	U	59	180		25
10199	EFH (C21-C30)	n.a.	540		59	180		25
10199	EFH (C30 - C40)	n.a.	2,100		59	180		25
10199	EFH (C8-C11)	n.a.	59	U	59	180		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.85	23.3		1
07914	Boron	7440-42-8	6.52		1.04	5.82		1
01650	Calcium	7440-70-2	5,080		7.13	23.3		1
01654	Iron	7439-89-6	23,300		5.48	23.3		1
01656	Lithium	7439-93-2	27.3		0.26	2.3		1
01657	Magnesium	7439-95-4	5,680		2.96	11.6		1
06958	Manganese	7439-96-5	306		0.0907	0.582		1
10145	Phosphorus	7723-14-0	525		0.652	11.6		1
01662	Potassium	7440-09-7	3,630		20.9	58.2		1
01667	Sodium	7440-23-5	119		43.4	116		1
07968	Strontium	7440-24-6	26.4		0.0721	0.582		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.94	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,070		0.442	1.16		1
10146	Zirconium	7440-67-7	0.977	U	0.977	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.83		0.0931	0.465		2
06126	Barium	7440-39-3	104		0.126	0.465		2
06127	Beryllium	7440-41-7	0.611		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.276		0.0465	0.116		2
06131	Chromium	7440-47-3	21.0		0.140	0.465		2
06132	Cobalt	7440-48-4	6.74		0.0233	0.116		2
06133	Copper	7440-50-8	12.0		0.0768	0.465		2
06135	Lead	7439-92-1	12.9		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.424		0.0582	0.116		2
06139	Nickel	7440-02-0	15.1		0.116	0.465		2
06141	Selenium	7782-49-2	0.176	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0411	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.257		0.0349	0.116		2
06148	Vanadium	7440-62-2	40.6		0.0256	0.116		2
06149	Zinc	7440-66-6	121		0.652	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0315	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	404		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 13:31	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011 17:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 10:28	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 03:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 04:14	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 11:02	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 04:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 05:41	Tracy A Cole	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 20:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111150003A	04/26/2011 19:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 17:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111150003A	04/26/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 20:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 20:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 14:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 04:00	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:42	K Robert Caulfeild-James	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266013
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13406 SDG#: DE134-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182101B	04/26/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039401B	04/26/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	101		17.7	35.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	2.2		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	8.9	J	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56		6.4	19		1
10138	Fluoranthene	206-44-0	2.3		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.71	1.8		1
10138	Pyrene	129-00-0	1.7	J	0.71	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1

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Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,000	J	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.82	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.96	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	2.8		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	30		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.27	20.9		1
07914	Boron	7440-42-8	3.66	J	0.932	5.24		1
01650	Calcium	7440-70-2	3,370		6.42	20.9		1
01654	Iron	7439-89-6	22,400		4.93	20.9		1
01656	Lithium	7439-93-2	27.5		0.23	2.1		1
01657	Magnesium	7439-95-4	6,160		2.66	10.5		1
06958	Manganese	7439-96-5	311		0.0817	0.524		1
10145	Phosphorus	7723-14-0	485		0.587	10.5		1
01662	Potassium	7440-09-7	3,760		18.9	52.4		1
01667	Sodium	7440-23-5	89.8	J	39.1	105		1
07968	Strontium	7440-24-6	16.8		0.0649	0.524		1
06969	Tin	7440-31-5	2.63	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,220		0.398	1.05		1
10146	Zirconium	7440-67-7	0.880	U	0.880	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0838	0.419		2
06126	Barium	7440-39-3	95.2		0.113	0.419		2
06127	Beryllium	7440-41-7	0.519		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.128		0.0419	0.105		2

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Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	23.5		0.126	0.419		2
06132	Cobalt	7440-48-4	6.61		0.0209	0.105		2
06133	Copper	7440-50-8	10.1		0.0691	0.419		2
06135	Lead	7439-92-1	7.08		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.452		0.0524	0.105		2
06139	Nickel	7440-02-0	13.9		0.105	0.419		2
06141	Selenium	7782-49-2	0.171	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0481	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.266		0.0314	0.105		2
06148	Vanadium	7440-62-2	39.4		0.0230	0.105		2
06149	Zinc	7440-66-6	61.1		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0190	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.83		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 14:05	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 14:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/03/2011 18:38	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 04:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 04:33	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 04:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 02:22	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 20:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011 20:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 10:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266014
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

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13407 SDG#: DE134-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 18:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 18:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 11:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 04:19	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:47	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266015
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		18	180		1
04688	Acenaphthylene	208-96-8	1,500		18	180		1
04688	Aniline	62-53-3	990		180	530		1
04688	Anthracene	120-12-7	1,500		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,500		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,400		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,400		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,300		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,500		18	180		1
04688	Carbazole	86-74-8	1,400		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		35	180		1
04688	4-Chloroaniline	106-47-8	460		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,600		18	180		1
04688	2-Chlorophenol	95-57-8	1,500		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		35	180		1
04688	Chrysene	218-01-9	1,500		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,500		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	910		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,500		18	180		1
04688	Diethylphthalate	84-66-2	1,400		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,500		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,500		35	180		1
04688	Dimethylphthalate	131-11-3	1,400		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	810		180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,100		350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,500		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		18	350		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,500		18	180		1
04688	Hexachlorobenzene	118-74-1	1,600		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600		70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,000		180	530		1
04688	Hexachloroethane	67-72-1	1,300		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,500		18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266015
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,400	18	180		1
04688	2-Methylphenol	95-48-7	1,400	35	180		1
04688	4-Methylphenol	106-44-5	1,300	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	18	180		1
04688	2-Nitroaniline	88-74-4	1,500	18	180		1
04688	3-Nitroaniline	99-09-2	1,300	35	180		1
04688	4-Nitroaniline	100-01-6	1,000	70	180		1
04688	Nitrobenzene	98-95-3	2,100	18	180		1
04688	2-Nitrophenol	88-75-5	1,400	18	180		1
04688	4-Nitrophenol	100-02-7	1,300	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	910	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500	18	180		1
04688	Pentachlorophenol	87-86-5	1,200	180	530		1
04688	Phenanthrene	85-01-8	1,400	18	180		1
04688	Phenol	108-95-2	1,500	18	180		1
04688	Pyrene	129-00-0	1,600	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30	0.71	1.8		1
10138	Acenaphthylene	208-96-8	30	0.35	1.8		1
10138	Anthracene	120-12-7	32	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	33	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	38	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	39	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	36	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	34	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	37	6.4	19		1
10138	Chrysene	218-01-9	33	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	44	0.71	1.8		1
10138	Diethylphthalate	84-66-2	33	6.4	19		1
10138	Dimethylphthalate	131-11-3	33	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	81	6.4	19		1

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SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266015
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	36		0.71	1.8		1
10138	Fluorene	86-73-7	31		0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	44		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	32		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	29		0.71	1.8		1
10138	Naphthalene	91-20-3	31		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	39		6.4	19		1
10138	Phenanthrene	85-01-8	32		0.71	1.8		1
10138	Pyrene	129-00-0	28		0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	16		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	19		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.37	21.4		1
07914	Boron	7440-42-8	203		0.951	5.34		1
01650	Calcium	7440-70-2	3,910		6.55	21.4		1
01654	Iron	7439-89-6	22,600		5.03	21.4		1
01656	Lithium	7439-93-2	132		0.24	2.1		1
01657	Magnesium	7439-95-4	6,450		2.71	10.7		1
06958	Manganese	7439-96-5	346		0.0833	0.534		1
10145	Phosphorus	7723-14-0	581		0.598	10.7		1
01662	Potassium	7440-09-7	5,100		19.2	53.4		1
01667	Sodium	7440-23-5	1,080		39.9	107		1
07968	Strontium	7440-24-6	122		0.0662	0.534		1
06969	Tin	7440-31-5	353		1.07	10.7		1
06970	Titanium	7440-32-6	1,450		0.406	1.07		1
10146	Zirconium	7440-67-7	102		0.897	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.655		0.0616	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.31		0.0822	0.411		2
06126	Barium	7440-39-3	121		0.111	0.411		2
06127	Beryllium	7440-41-7	1.42		0.0164	0.103		2

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13407 SDG#: DE134-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.26	0.0411	0.103		2
06131	Chromium	7440-47-3	37.2	0.123	0.411		2
06132	Cobalt	7440-48-4	64.6	0.0205	0.103		2
06133	Copper	7440-50-8	22.0	0.0678	0.411		2
06135	Lead	7439-92-1	10.6	0.0107	0.205		2
06138	Molybdenum	7439-98-7	11.2	0.0514	0.103		2
06139	Nickel	7440-02-0	25.9	0.103	0.411		2
06141	Selenium	7782-49-2	2.23	0.0411	0.411		2
06142	Silver	7440-22-4	11.3	0.0123	0.103		2
06145	Thallium	7440-28-0	0.687	0.0308	0.103		2
06148	Vanadium	7440-62-2	51.9	0.0226	0.103		2
06149	Zinc	7440-66-6	72.8	0.575	3.08		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.186	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1	0.85	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	544	9.6	32.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	57.3	1.1	5.3		5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 15:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/03/2011 19:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 04:52	Richard A Shober	1

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Sample Description: SL-119-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266015
LLI Group # 1243433
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13407 SDG#: DE134-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 19:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 11:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 04:31	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266016
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180		1
04688	Acenaphthylene	208-96-8	1,600		18	180		1
04688	Aniline	62-53-3	1,100		180	530		1
04688	Anthracene	120-12-7	1,600		18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,400		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,400		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,500		18	180		1
04688	Benzoic acid	65-85-0	1,300		180	530		1
04688	Benzyl alcohol	100-51-6	1,500		180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,700		18	180		1
04688	Di-n-butylphthalate	84-74-2	2,100		18	180		1
04688	Carbazole	86-74-8	1,500		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		35	180		1
04688	4-Chloroaniline	106-47-8	680		70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,600		18	180		1
04688	2-Chlorophenol	95-57-8	1,500		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180		1
04688	Chrysene	218-01-9	1,600		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,600		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		110	350		1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180		1
04688	Diethylphthalate	84-66-2	1,500		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		35	180		1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180		1
04688	Dimethylphthalate	131-11-3	1,500		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	900		180	530		1
04688	2,4-Dinitrophenol	51-28-5	1,300		350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		35	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	350		1
04688	Fluoranthene	206-44-0	1,900		18	180		1
04688	Fluorene	86-73-7	1,500		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300		180	530		1
04688	Hexachloroethane	67-72-1	1,700		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,500		18	180		1

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Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266016
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180		1
04688	2-Methylphenol	95-48-7	1,500	35	180		1
04688	4-Methylphenol	106-44-5	1,400	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	18	180		1
04688	2-Nitroaniline	88-74-4	1,600	18	180		1
04688	3-Nitroaniline	99-09-2	1,400	35	180		1
04688	4-Nitroaniline	100-01-6	1,100	70	180		1
04688	Nitrobenzene	98-95-3	2,200	18	180		1
04688	2-Nitrophenol	88-75-5	1,600	18	180		1
04688	4-Nitrophenol	100-02-7	1,400	180	530		1
04688	N-Nitrosodimethylamine	62-75-9	1,900	35	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500	18	180		1
04688	Pentachlorophenol	87-86-5	960	180	530		1
04688	Phenanthrene	85-01-8	1,600	18	180		1
04688	Phenol	108-95-2	1,500	18	180		1
04688	Pyrene	129-00-0	1,700	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30	0.71	1.8		1
10138	Acenaphthylene	208-96-8	31	0.35	1.8		1
10138	Anthracene	120-12-7	32	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	33	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	38	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	35	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	38	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	39	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	35	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	36	6.3	19		1
10138	Chrysene	218-01-9	34	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	44	0.71	1.8		1
10138	Diethylphthalate	84-66-2	32	6.3	19		1
10138	Dimethylphthalate	131-11-3	32	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	97	6.3	19		1

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Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266016
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	37		0.71	1.8		1
10138	Fluorene	86-73-7	32		0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	43		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	32		0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	28		0.71	1.8		1
10138	Naphthalene	91-20-3	31		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	30		0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	39		6.3	19		1
10138	Phenanthrene	85-01-8	32		0.71	1.8		1
10138	Pyrene	129-00-0	28		0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	16		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	19		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		5.32	21.2		1
07914	Boron	7440-42-8	205		0.941	5.29		1
01650	Calcium	7440-70-2	3,860		6.48	21.2		1
01654	Iron	7439-89-6	21,800		4.98	21.2		1
01656	Lithium	7439-93-2	132		0.23	2.1		1
01657	Magnesium	7439-95-4	6,140		2.69	10.6		1
06958	Manganese	7439-96-5	343		0.0825	0.529		1
10145	Phosphorus	7723-14-0	597		0.592	10.6		1
01662	Potassium	7440-09-7	4,910		19.0	52.9		1
01667	Sodium	7440-23-5	1,110		39.5	106		1
07968	Strontium	7440-24-6	122		0.0656	0.529		1
06969	Tin	7440-31-5	357		1.06	10.6		1
06970	Titanium	7440-32-6	1,440		0.402	1.06		1
10146	Zirconium	7440-67-7	102		0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.558		0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.09		0.0846	0.423		2
06126	Barium	7440-39-3	109		0.114	0.423		2
06127	Beryllium	7440-41-7	1.42		0.0169	0.106		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266016
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.29	0.0423	0.106		2
06131	Chromium	7440-47-3	36.4	0.127	0.423		2
06132	Cobalt	7440-48-4	63.5	0.0212	0.106		2
06133	Copper	7440-50-8	22.1	0.0698	0.423		2
06135	Lead	7439-92-1	11.5	0.0110	0.212		2
06138	Molybdenum	7439-98-7	11.4	0.0529	0.106		2
06139	Nickel	7440-02-0	25.6	0.106	0.423		2
06141	Selenium	7782-49-2	2.36	0.0423	0.423		2
06142	Silver	7440-22-4	11.4	0.0127	0.106		2
06145	Thallium	7440-28-0	0.734	0.0317	0.106		2
06148	Vanadium	7440-62-2	50.8	0.0233	0.106		2
06149	Zinc	7440-66-6	74.5	0.592	3.17		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.185	0.0029	0.103		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/03/2011 15:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/03/2011 19:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 05:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266016
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 12:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 12:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 12:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 12:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266017
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.12	20.4		1
07914	Boron	7440-42-8	3.66	J	0.906	5.09		1
01650	Calcium	7440-70-2	3,330		6.24	20.4		1
01654	Iron	7439-89-6	22,300		4.79	20.4		1
01656	Lithium	7439-93-2	27.3		0.22	2.0		1
01657	Magnesium	7439-95-4	6,040		2.58	10.2		1
06958	Manganese	7439-96-5	312		0.0794	0.509		1
10145	Phosphorus	7723-14-0	492		0.570	10.2		1
01662	Potassium	7440-09-7	3,750		18.3	50.9		1
01667	Sodium	7440-23-5	80.6	J	38.0	102		1
07968	Strontium	7440-24-6	16.8		0.0631	0.509		1
06969	Tin	7440-31-5	2.51	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,210		0.387	1.02		1
10146	Zirconium	7440-67-7	1.22	J	0.855	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0646	J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.46		0.0846	0.423		2
06126	Barium	7440-39-3	89.9		0.114	0.423		2
06127	Beryllium	7440-41-7	0.522		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.151		0.0423	0.106		2
06131	Chromium	7440-47-3	22.5		0.127	0.423		2
06132	Cobalt	7440-48-4	6.37		0.0212	0.106		2
06133	Copper	7440-50-8	9.80		0.0698	0.423		2
06135	Lead	7439-92-1	6.47		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.352		0.0529	0.106		2
06139	Nickel	7440-02-0	13.4		0.106	0.423		2
06141	Selenium	7782-49-2	0.128	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0275	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.237		0.0317	0.106		2
06148	Vanadium	7440-62-2	39.4		0.0233	0.106		2
06149	Zinc	7440-66-6	58.8		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

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Sample Description: SL-119-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266017
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	391	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.83	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3		n.a.	6.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3		n.a.	6.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 04:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266017
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13407 SDG#: DE134-07DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 18:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 11:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 05:15	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	254	J	204	408		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	2.0	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.5	J	7.3	22		1
10138	Chrysene	218-01-9	3.4		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	4.7		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.8	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	2.6		0.81	2.0		1
10138	Pyrene	129-00-0	3.3		0.81	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,700	J	730	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	4.7		1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	2.4		0.40	2.1		1
10225	PCB-1260	11096-82-5	2.0	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.5	U	2.5	7.4		5
10199	EFH (C15-C20)	n.a.	5.6	J	2.5	7.4		5
10199	EFH (C21-C30)	n.a.	45		2.5	7.4		5
10199	EFH (C30 - C40)	n.a.	180		2.5	7.4		5
10199	EFH (C8-C11)	n.a.	2.5	U	2.5	7.4		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.98	23.8		1
07914	Boron	7440-42-8	5.34	J	1.06	5.95		1
01650	Calcium	7440-70-2	3,800		7.29	23.8		1
01654	Iron	7439-89-6	20,800		5.60	23.8		1
01656	Lithium	7439-93-2	22.4		0.26	2.4		1
01657	Magnesium	7439-95-4	4,010		3.02	11.9		1
06958	Manganese	7439-96-5	481		0.0928	0.595		1
10145	Phosphorus	7723-14-0	551		0.666	11.9		1
01662	Potassium	7440-09-7	3,640		21.4	59.5		1
01667	Sodium	7440-23-5	88.0	J	44.4	119		1
07968	Strontium	7440-24-6	26.4		0.0738	0.595		1
06969	Tin	7440-31-5	2.53	J	1.19	11.9		1
06970	Titanium	7440-32-6	937		0.452	1.19		1
10146	Zirconium	7440-67-7	0.999	U	0.999	5.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0714	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.84		0.0952	0.476		2
06126	Barium	7440-39-3	111		0.128	0.476		2
06127	Beryllium	7440-41-7	0.543		0.0190	0.119		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.281		0.0476	0.119		2
06131	Chromium	7440-47-3	19.0		0.143	0.476		2
06132	Cobalt	7440-48-4	9.11		0.0238	0.119		2
06133	Copper	7440-50-8	11.5		0.0785	0.476		2
06135	Lead	7439-92-1	17.0		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.677		0.0595	0.119		2
06139	Nickel	7440-02-0	12.9		0.119	0.476		2
06141	Selenium	7782-49-2	0.226	J	0.0476	0.476		2
06142	Silver	7440-22-4	0.0510	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.266		0.0357	0.119		2
06148	Vanadium	7440-62-2	32.1		0.0262	0.119		2
06149	Zinc	7440-66-6	86.1		0.666	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0288	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.2		0.98	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.24	J	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	414		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 14:56	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011 17:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/03/2011 23:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 05:05	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 05:02	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 11:08	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 05:28	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 04:27	Tracy A Cole	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 20:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011 21:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 13:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266018
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13408 SDG#: DE134-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 20:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 14:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 05:27	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201A	05/03/2011 09:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201A	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	370		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	26	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	50	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
	The recovery of butylbenzylphthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.40	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.73	1.8		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.3		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	4.6		0.73	1.8		1
10138	Fluorene	86-73-7	2.4		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.2	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	2.8		0.73	1.8		1
10138	Pyrene	129-00-0	4.1		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1

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Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	870	J	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	2.7		0.36	1.9		1
10225	PCB-1260	11096-82-5	3.8		0.43	1.9		1

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Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	6.1		0.89	2.7		2
10199	EFH (C21-C30)	n.a.	37		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	110		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.58	22.2		1
07914	Boron	7440-42-8	5.02	J	0.988	5.55		1
01650	Calcium	7440-70-2	4,080		6.80	22.2		1
01654	Iron	7439-89-6	20,700		5.23	22.2		1
01656	Lithium	7439-93-2	24.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,360		2.82	11.1		1
06958	Manganese	7439-96-5	294		0.0866	0.555		1
10145	Phosphorus	7723-14-0	609		0.622	11.1		1
01662	Potassium	7440-09-7	3,850		20.0	55.5		1
01667	Sodium	7440-23-5	74.1	J	41.4	111		1
07968	Strontium	7440-24-6	19.0		0.0688	0.555		1
06969	Tin	7440-31-5	2.32	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,010		0.422	1.11		1
10146	Zirconium	7440-67-7	0.932	U	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0647	0.216		2

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Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0862	0.431		2
06126	Barium	7440-39-3	117		0.116	0.431		2
06127	Beryllium	7440-41-7	0.583		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.253		0.0431	0.108		2
06131	Chromium	7440-47-3	26.6		0.129	0.431		2
06132	Cobalt	7440-48-4	7.30		0.0216	0.108		2
06133	Copper	7440-50-8	13.8		0.0711	0.431		2
06135	Lead	7439-92-1	23.0		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.658		0.0539	0.108		2
06139	Nickel	7440-02-0	16.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.244	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0760	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.293		0.0323	0.108		2
06148	Vanadium	7440-62-2	44.9		0.0237	0.108		2
06149	Zinc	7440-66-6	90.6		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0347	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	J	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	427		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13409 SDG#: DE134-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 15:13	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011 18:20	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 00:04	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 05:48	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111170004A	04/29/2011 05:11	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 05:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111170004A	04/27/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180037A	05/03/2011 04:02	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111160037A	04/27/2011 20:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011 21:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230018A	05/06/2011 14:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180037A	04/29/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230018A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111160037A	04/26/2011 18:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 20:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621201A	05/09/2011 20:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 15:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 05:40	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:50	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266019
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13409 SDG#: DE134-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266020
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13410 SDG#: DE134-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	57	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266020
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13410 SDG#: DE134-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.94	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.97	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	13	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.87	J	0.71	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.1		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.1		2
10225	Aroclor 5460	11126-42-4	2.1	U	2.1	7.1		2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.6		2
10225	PCB-1221	11104-28-2	0.71	U	0.71	3.6		2
10225	PCB-1232	11141-16-5	0.71	U	0.71	3.6		2
10225	PCB-1242	53469-21-9	0.71	U	0.71	3.6		2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.6		2
10225	PCB-1254	11097-69-1	1.3	J	0.71	3.6		2
10225	PCB-1260	11096-82-5	1.6	J	0.83	3.6		2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.6		2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.6		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266020
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13410 SDG#: DE134-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		5.34	21.2		1
07914	Boron	7440-42-8	3.04	J	0.945	5.31		1
01650	Calcium	7440-70-2	3,270		6.51	21.2		1
01654	Iron	7439-89-6	22,000		5.00	21.2		1
01656	Lithium	7439-93-2	26.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,220		2.70	10.6		1
06958	Manganese	7439-96-5	301		0.0829	0.531		1
10145	Phosphorus	7723-14-0	459		0.595	10.6		1
01662	Potassium	7440-09-7	3,680		19.1	53.1		1
01667	Sodium	7440-23-5	82.1	J	39.6	106		1
07968	Strontium	7440-24-6	15.7		0.0659	0.531		1
06969	Tin	7440-31-5	2.53	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,190		0.404	1.06		1
10146	Zirconium	7440-67-7	0.892	U	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0842	0.421		2
06126	Barium	7440-39-3	110		0.114	0.421		2
06127	Beryllium	7440-41-7	0.547		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.178		0.0421	0.105		2
06131	Chromium	7440-47-3	26.2		0.126	0.421		2
06132	Cobalt	7440-48-4	8.11		0.0210	0.105		2
06133	Copper	7440-50-8	11.9		0.0694	0.421		2
06135	Lead	7439-92-1	8.66		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.449		0.0526	0.105		2
06139	Nickel	7440-02-0	16.7		0.105	0.421		2
06141	Selenium	7782-49-2	0.166	J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0469	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.270		0.0316	0.105		2
06148	Vanadium	7440-62-2	43.7		0.0231	0.105		2
06149	Zinc	7440-66-6	70.2		0.589	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0221	J	0.0029	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266020
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13410 SDG#: DE134-10FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	470	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.93	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	6.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011	18:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011	00:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011	11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011	07:30	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011	06:05	Richard A Shober	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011	15:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011	05:23	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266020
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13410 SDG#: DE134-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201A	05/09/2011 21:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201A	05/09/2011 15:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 05:52	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201A	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201A	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	8.0		0.84
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.84
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.84
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.84
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.84
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.84
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.84
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.84
06192	Methylene Chloride	75-09-2	0.59	J	0.24	4.0		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.84

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Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.84
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,000		5.90	23.5		1
07914	Boron	7440-42-8	8.50		1.04	5.87		1
01650	Calcium	7440-70-2	10,900		7.19	23.5		1
01654	Iron	7439-89-6	32,800		27.6	117		5
01656	Lithium	7439-93-2	28.8		0.26	2.3		1
01657	Magnesium	7439-95-4	7,430		2.98	11.7		1
06958	Manganese	7439-96-5	411		0.0915	0.587		1
10145	Phosphorus	7723-14-0	295		0.657	11.7		1
01662	Potassium	7440-09-7	3,930		21.1	58.7		1
01667	Sodium	7440-23-5	149		43.8	117		1
07968	Strontium	7440-24-6	39.1		0.0727	0.587		1
06969	Tin	7440-31-5	2.88	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,360		0.446	1.17		1
10146	Zirconium	7440-67-7	2.97	J	0.985	5.87		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.107	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.08		0.0920	0.460		2
06126	Barium	7440-39-3	122		0.124	0.460		2
06127	Beryllium	7440-41-7	0.953		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.330		0.0460	0.115		2
06131	Chromium	7440-47-3	49.0		0.138	0.460		2
06132	Cobalt	7440-48-4	11.3		0.0230	0.115		2

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Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	18.9	0.0759	0.460		2
06135	Lead	7439-92-1	9.80	0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.413	0.0575	0.115		2
06139	Nickel	7440-02-0	24.7	0.115	0.460		2
06141	Selenium	7782-49-2	0.0723 J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0295 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.358	0.0345	0.115		2
06148	Vanadium	7440-62-2	69.5	0.0253	0.115		2
06149	Zinc	7440-66-6	73.6	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.6	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	468	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
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Project Name: SSFL Area IV Collocated Soil Sampling

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13411 SDG#: DE134-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 04:51	Angela D Sneeringer	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 18:22	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111224207	04/22/2011 14:30	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/04/2011 19:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 01:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 06:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 06:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011 23:05	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 10:31	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2

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Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266021
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13411 SDG#: DE134-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 21:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 16:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 06:11	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1

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Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,900		5.57	22.1		1
07914	Boron	7440-42-8	3.68	J	0.985	5.53		1
01650	Calcium	7440-70-2	74,800		33.9	111		5
01654	Iron	7439-89-6	19,900		5.21	22.1		1
01656	Lithium	7439-93-2	20.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,580		2.81	11.1		1
06958	Manganese	7439-96-5	121		0.0863	0.553		1
10145	Phosphorus	7723-14-0	199		0.620	11.1		1
01662	Potassium	7440-09-7	1,630		19.9	55.3		1
01667	Sodium	7440-23-5	106	J	41.3	111		1
07968	Strontium	7440-24-6	61.7		0.0686	0.553		1
06969	Tin	7440-31-5	2.42	J	1.11	11.1		1
06970	Titanium	7440-32-6	941		0.420	1.11		1
10146	Zirconium	7440-67-7	1.87	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0645	U	0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.92		0.0860	0.430		2
06126	Barium	7440-39-3	80.0		0.116	0.430		2
06127	Beryllium	7440-41-7	0.816		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.166		0.0430	0.107		2
06131	Chromium	7440-47-3	23.9		0.129	0.430		2
06132	Cobalt	7440-48-4	6.86		0.0215	0.107		2
06133	Copper	7440-50-8	7.95		0.0709	0.430		2
06135	Lead	7439-92-1	8.44		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.113		0.0537	0.107		2
06139	Nickel	7440-02-0	13.9		0.107	0.430		2
06141	Selenium	7782-49-2	0.0430	U	0.0430	0.430		2
06142	Silver	7440-22-4	0.0221	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.241		0.0322	0.107		2
06148	Vanadium	7440-62-2	37.5		0.0236	0.107		2
06149	Zinc	7440-66-6	47.8		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	465	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.33	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/05/2011	04:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011	01:42	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011	11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011	07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011	07:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011	06:42	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011	15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011	13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011	23:23	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011	09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011	10:35	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011	05:31	Tara L Snyder	1

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Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266022
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13412 SDG#: DE134-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 22:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 17:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 06:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13413 SDG#: DE134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.88
06192	Methylene Chloride	75-09-2	0.44	J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13413 SDG#: DE134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.7
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13413 SDG#: DE134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

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13413 SDG#: DE134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1

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Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

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13413 SDG#: DE134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.76	22.9		1
07914	Boron	7440-42-8	7.41		1.02	5.73		1
01650	Calcium	7440-70-2	28,200		7.02	22.9		1
01654	Iron	7439-89-6	29,500		5.40	22.9		1
01656	Lithium	7439-93-2	24.7		0.25	2.3		1
01657	Magnesium	7439-95-4	7,030		2.91	11.5		1
06958	Manganese	7439-96-5	377		0.0894	0.573		1
10145	Phosphorus	7723-14-0	334		0.642	11.5		1
01662	Potassium	7440-09-7	2,720		20.6	57.3		1
01667	Sodium	7440-23-5	155		42.7	115		1
07968	Strontium	7440-24-6	38.6		0.0710	0.573		1
06969	Tin	7440-31-5	2.64	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,160		0.435	1.15		1
10146	Zirconium	7440-67-7	2.60	J	0.963	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.582		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.14		0.0882	0.441		2
06126	Barium	7440-39-3	112		0.119	0.441		2
06127	Beryllium	7440-41-7	0.795		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.497		0.0441	0.110		2
06131	Chromium	7440-47-3	36.4		0.132	0.441		2
06132	Cobalt	7440-48-4	10.8		0.0220	0.110		2

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Analysis Report

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13413 SDG#: DE134-13

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper		7440-50-8	16.0		0.0728	0.441		2
06135	Lead		7439-92-1	54.0		0.0115	0.220		2
06138	Molybdenum		7439-98-7	0.286		0.0551	0.110		2
06139	Nickel		7440-02-0	20.3		0.110	0.441		2
06141	Selenium		7782-49-2	0.0886	J	0.0441	0.441		2
06142	Silver		7440-22-4	0.0528	J	0.0132	0.110		2
06145	Thallium		7440-28-0	0.247		0.0331	0.110		2
06148	Vanadium		7440-62-2	56.7		0.0243	0.110		2
06149	Zinc		7440-66-6	53.5		0.617	3.31		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0109	J	0.0033	0.114		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	5.1		0.93	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4	U	10.4	34.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.32	J	0.23	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	460		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.16		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13413 SDG#: DE134-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 05:13	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 18:42	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111224207	04/22/2011 14:34	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/05/2011 05:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 02:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 07:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 07:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011 23:40	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/03/2011 17:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2

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Analysis Report

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266023
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13413 SDG#: DE134-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 22:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 17:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 06:36	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.52	21.9		1
07914	Boron	7440-42-8	2.35	J	0.976	5.48		1
01650	Calcium	7440-70-2	98,600		33.6	110		5
01654	Iron	7439-89-6	17,300		5.17	21.9		1
01656	Lithium	7439-93-2	21.7		0.24	2.2		1
01657	Magnesium	7439-95-4	3,780		2.79	11.0		1
06958	Manganese	7439-96-5	268		0.0855	0.548		1
10145	Phosphorus	7723-14-0	307		0.614	11.0		1
01662	Potassium	7440-09-7	1,320		19.7	54.8		1
01667	Sodium	7440-23-5	123		40.9	110		1
07968	Strontium	7440-24-6	67.5		0.0680	0.548		1
06969	Tin	7440-31-5	2.24	J	1.10	11.0		1
06970	Titanium	7440-32-6	794		0.417	1.10		1
10146	Zirconium	7440-67-7	1.25	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.90		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.09		0.0869	0.434		2
06126	Barium	7440-39-3	74.0		0.117	0.434		2
06127	Beryllium	7440-41-7	0.695		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.186		0.0434	0.109		2
06131	Chromium	7440-47-3	19.2		0.130	0.434		2
06132	Cobalt	7440-48-4	6.20		0.0217	0.109		2
06133	Copper	7440-50-8	7.79		0.0717	0.434		2
06135	Lead	7439-92-1	115		0.0282	0.543		5
06138	Molybdenum	7439-98-7	0.266		0.0543	0.109		2
06139	Nickel	7440-02-0	9.65		0.109	0.434		2
06141	Selenium	7782-49-2	0.0844	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0420	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.179		0.0326	0.109		2
06148	Vanadium	7440-62-2	36.9		0.0239	0.109		2
06149	Zinc	7440-66-6	35.3		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0112	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	450	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.83	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/05/2011	05:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011	02:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011	11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011	07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011	08:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011	07:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011	15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011	13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/27/2011	23:58	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011	09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011	10:38	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011	05:47	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266024
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13414 SDG#: DE134-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:43	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 16:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 23:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 18:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 06:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.93
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.93
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.93
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.93
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.93
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.93
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.93
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.93
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.93
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.93
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.93
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.93
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.93
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.93
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.93
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.93
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.93
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.93
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.93
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.93
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.93
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.93
06192	Methylene Chloride	75-09-2	0.52	J	0.27	4.5		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.93
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.93
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.93
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.93
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		22.52
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1

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Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1

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Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.01	23.9		1
07914	Boron	7440-42-8	5.77	J	1.06	5.97		1
01650	Calcium	7440-70-2	146,000		36.6	119		5
01654	Iron	7439-89-6	19,500		5.63	23.9		1
01656	Lithium	7439-93-2	21.7		0.26	2.4		1
01657	Magnesium	7439-95-4	5,510		3.03	11.9		1
06958	Manganese	7439-96-5	288		0.0932	0.597		1
10145	Phosphorus	7723-14-0	345		0.669	11.9		1
01662	Potassium	7440-09-7	1,920		21.5	59.7		1
01667	Sodium	7440-23-5	135		44.5	119		1
07968	Strontium	7440-24-6	120		0.0740	0.597		1
06969	Tin	7440-31-5	2.20	J	1.19	11.9		1
06970	Titanium	7440-32-6	904		0.454	1.19		1
10146	Zirconium	7440-67-7	2.47	J	1.00	5.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.118	J	0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0946	0.473		2
06126	Barium	7440-39-3	86.7		0.128	0.473		2
06127	Beryllium	7440-41-7	0.756		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.393		0.0473	0.118		2
06131	Chromium	7440-47-3	30.8		0.142	0.473		2
06132	Cobalt	7440-48-4	7.54		0.0237	0.118		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13415 SDG#: DE134-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	13.6	0.0781	0.473		2
06135	Lead	7439-92-1	9.99	0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.249	0.0591	0.118		2
06139	Nickel	7440-02-0	15.7	0.118	0.473		2
06141	Selenium	7782-49-2	0.0818 J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0343 J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.226	0.0355	0.118		2
06148	Vanadium	7440-62-2	49.3	0.0260	0.118		2
06149	Zinc	7440-66-6	48.8	0.662	3.55		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087 J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	446	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-006-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13415 SDG#: DE134-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 05:36	Angela D Sneeringer	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152AA	04/25/2011 19:02	Jason M Long	22.52
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111224207	04/22/2011 14:39	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111224207	04/22/2011 14:36	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/05/2011 05:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011 03:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011 11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011 07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 10:45	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011 08:51	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011 15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/28/2011 00:16	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011 10:42	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266025
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13415 SDG#: DE134-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 23:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 18:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11129243203A	05/12/2011 07:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102A	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402A	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1

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Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.92	23.6		1
07914	Boron	7440-42-8	4.57	J	1.05	5.89		1
01650	Calcium	7440-70-2	36,300		7.22	23.6		1
01654	Iron	7439-89-6	24,200		5.55	23.6		1
01656	Lithium	7439-93-2	26.7		0.26	2.4		1
01657	Magnesium	7439-95-4	4,800		2.99	11.8		1
06958	Manganese	7439-96-5	317		0.0919	0.589		1
10145	Phosphorus	7723-14-0	245		0.660	11.8		1
01662	Potassium	7440-09-7	2,470		21.2	58.9		1
01667	Sodium	7440-23-5	161		43.9	118		1
07968	Strontium	7440-24-6	41.1		0.0730	0.589		1
06969	Tin	7440-31-5	2.78	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,150		0.448	1.18		1
10146	Zirconium	7440-67-7	1.88	J	0.989	5.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0942	0.471		2
06126	Barium	7440-39-3	100		0.127	0.471		2
06127	Beryllium	7440-41-7	0.861		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.292		0.0471	0.118		2
06131	Chromium	7440-47-3	36.3		0.141	0.471		2
06132	Cobalt	7440-48-4	8.12		0.0236	0.118		2
06133	Copper	7440-50-8	13.7		0.0777	0.471		2
06135	Lead	7439-92-1	7.12		0.0122	0.236		2
06138	Molybdenum	7439-98-7	0.523		0.0589	0.118		2
06139	Nickel	7440-02-0	23.8		0.118	0.471		2
06141	Selenium	7782-49-2	0.0801	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0438	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.346		0.0353	0.118		2
06148	Vanadium	7440-62-2	49.2		0.0259	0.118		2
06149	Zinc	7440-66-6	64.8		0.660	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.1		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	379	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.13	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11119SLA026	05/05/2011	06:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLC026	05/04/2011	03:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLC026	05/01/2011	11:40	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11119SLA026	04/30/2011	07:30	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011	11:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111180003A	05/03/2011	09:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111180003A	04/28/2011	15:00	Olivia I Santiago	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011	13:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111160024A	04/28/2011	00:33	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111160024A	04/27/2011	09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111175708003	05/04/2011	05:55	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266026
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13416 SDG#: DE134-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111175708003	05/04/2011 05:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111171026003D	05/02/2011 13:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111171026003A	05/02/2011 16:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111171026003C	05/02/2011 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111171026003B	05/02/2011 13:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111171026003A	05/02/2011 13:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111175711002	04/29/2011 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111175708003	04/28/2011 10:32	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111171026003	04/28/2011 11:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111175711002	04/28/2011 12:04	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621201B	05/09/2011 23:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621201B	05/09/2011 18:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11129243203A	05/12/2011 07:19	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621201B	05/08/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621201B	05/07/2011 12:08	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11129243203A	05/09/2011 22:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-042111 Water
SSFL Area IV Collocated Soil Sampling
TB-042111

LLI Sample # WW 6266027
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 08:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13417 SDG#: DE134-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042111 Water
SSFL Area IV Collocated Soil Sampling
TB-042111

LLI Sample # WW 6266027
LLI Group # 1243433
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 08:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13417 SDG#: DE134-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111171AA	04/27/2011 12:48	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111121AA	04/22/2011 18:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111121AA	04/22/2011 18:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111171AA	04/27/2011 12:48	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111171AA	Sample number(s): 6266021,6266023,6266025									
Acetone	6.7	U	6.7	8.0	ug/kg	97		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	119		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	86		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	95		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	86		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	94		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	52		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	95		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	101		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	84		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	86		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	85		61-134		
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111121AA	Sample number(s): 6266027									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	106	110	80-123	4	30
Batch number: E111152AA	Sample number(s): 6266021,6266023,6266025									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	119	70-130	12	30
Batch number: Y111171AA	Sample number(s): 6266027									
Acetone	6	U	6.	20	ug/l	100	100	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	90	92	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromoform	1	U	1.	5	ug/l	94	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	121*	125*	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	122	117	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	115	112	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	95	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	114	109	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	128	139*	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	92	95	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	86	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	104	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	107	104	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	123*	122*	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	131*	126	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	107	105	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	97	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	97	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	120	118	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	104	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	101	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	132*	132*	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	94	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	99	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	102	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	99	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	94	93	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	88	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	94	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	87	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	106	103	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	88	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	105	101	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	123	119	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	100	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	101	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	124	127*	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11119SLA026	Sample number(s): 6266008-6266016,6266018-6266026									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	83		34-94		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	107		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	88		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	88		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	95		67-125		
Benzoic acid	170 U		170.	500	ug/kg	84		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	136*		75-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		79-110		
Chrysene	17	U	17.	170	ug/kg	101		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	73		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	100		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	62		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	35*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	111		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	76		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	131*		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	116*		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	79		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	83		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	94		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	83		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	154*		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	99		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11120SLB026	Sample number(s): 6266008-6266014,6266018-6266019									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11120SLC026	Sample number(s): 6266008-6266016,6266018-6266026									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	83		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	101		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	110		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	92		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	93		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	90		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	92		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	112		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	78		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 111200020A	Sample number(s): 6266008-6266014,6266018-6266019,6266021-6266026									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	83	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	82	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111170004A	Sample number(s): 6266008-6266014,6266018-6266019									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		
Batch number: 111220020A	Sample number(s): 6266008,6266010-6266011,6266013,6266018									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111180003A	Sample number(s): 6266008-6266016,6266018-6266026									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	78	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	74		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	79		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111180037A	Sample number(s): 6266008-6266014,6266018-6266019									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	95		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	91		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	62		54-107		
Batch number: 111150003A	Sample number(s): 6266010-6266013									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Batch number: 111160024A	Sample number(s): 6266014,6266018-6266019,6266021-6266026									
Diethylene glycol	5.0	U	5.0	13	mg/kg	106		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	103		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	100		75-125		
Batch number: 111160037A	Sample number(s): 6266008-6266014,6266018-6266019									
Ethanol	100 U		100.	500	ug/kg	97		71-129		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	93		68-129		
Batch number: 111170001A	Sample number(s): 6266008-6266009									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 111230018A	Sample number(s): 6266008-6266014,6266018-6266019									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111171026003A	Sample number(s): 6266008-6266026								
Antimony	0.0810 J	0.0600	0.200	mg/kg	63		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	96		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	103		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	104		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.394 J	0.0660	0.400	mg/kg	97		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	96		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	97		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0871 J	0.0220	0.100	mg/kg	98		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	100		81-112		
Batch number: 111171026003B	Sample number(s): 6266008-6266026								
Selenium	0.0400 U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111171026003C	Sample number(s): 6266008-6266026								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 111171026003D	Sample number(s): 6266008-6266026								
Barium	0.108 U	0.108	0.400	mg/kg	95		81-111		
Batch number: 111175708003	Sample number(s): 6266008-6266026								
Aluminum	5.03 U	5.03	20.0	mg/kg	105		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	95		78-110		
Calcium	7.67 J	6.13	20.0	mg/kg	104		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	103		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.17 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	106		78-110		
Sodium	37.3 U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	107		86-110		
Tin	1.33 J	1.00	10.0	mg/kg	93		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	86		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111175711002	Sample number(s): 6266008-6266026								
Mercury	0.0027 U	0.0027	0.0934	mg/kg	92		88-123		
Batch number: 11122102201A	Sample number(s): 6266008-6266013,6266018								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11122102201B	Sample number(s): 6266014,6266019								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11127621201A	Sample number(s): 6266008-6266015,6266017-6266020								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11127621201B	Sample number(s): 6266021-6266026								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11128621201A	Sample number(s): 6266008-6266015,6266017-6266020								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	107		90-110		
Batch number: 11128621201B	Sample number(s): 6266021-6266026									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11129243203A	Sample number(s): 6266008-6266015,6266017-6266026									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11116039401B	Sample number(s): 6266008-6266013									
18a pH by 9045C						100		95-105		
Batch number: 11116039402A	Sample number(s): 6266014,6266017-6266025									
18a pH by 9045C						100		95-105		
Batch number: 11116039402B	Sample number(s): 6266026									
18a pH by 9045C						100		95-105		
Batch number: 11116182101B	Sample number(s): 6266008-6266013									
32a OR Potential						99		98-102		
Batch number: 11116182102A	Sample number(s): 6266014,6266017-6266025									
32a OR Potential						99		98-102		
Batch number: 11116182102B	Sample number(s): 6266026									
32a OR Potential						99		98-102		
Batch number: 11123162401A	Sample number(s): 6266020									
Moisture Content by 160.3						100		80-120		
Batch number: 11133162401B	Sample number(s): 6266008-6266019,6266021-6266026									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111171AA	Sample number(s): 6266021,6266023,6266025 UNSPK: P267473								
Acetone	90	97	15-210	13	30				
Benzene	120	118	55-143	4	30				
Bromobenzene	113	109	43-139	3	30				
Bromochloromethane	123	127	60-137	9	30				
Bromodichloromethane	104	104	53-136	6	30				
Bromoform	90	92	38-124	8	30				
Bromomethane	111	107	42-168	2	30				
2-Butanone	84	90	37-163	13	30				
n-Butylbenzene	128	119	30-146	1	30				
sec-Butylbenzene	131	124	33-157	0	30				
tert-Butylbenzene	116	113	41-152	3	30				
Carbon Tetrachloride	113	111	45-153	4	30				

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Quality Control Summary

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Reported: 05/27/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chlorobenzene	112	110	49-135	4	30				
Chloroethane	114	109	39-152	1	30				
2-Chloroethyl Vinyl Ether	51	51	32-139	6	30				
Chloroform	112	111	61-142	5	30				
Chloromethane	109	107	51-163	4	30				
2-Chlorotoluene	118	114	42-146	2	30				
4-Chlorotoluene	117	111	39-145	1	30				
Chlorotrifluoroethene	91	86	70-130	8	30				
1,2-Dibromo-3-chloropropane	79	88	30-139	16	30				
Dibromochloromethane	98	100	51-128	8	30				
1,2-Dibromoethane	101	104	54-129	9	30				
Dibromomethane	100	101	57-130	6	30				
1,2-Dichlorobenzene	107	105	36-133	4	30				
1,3-Dichlorobenzene	113	107	34-134	1	30				
1,4-Dichlorobenzene	111	107	35-136	2	30				
Dichlorodifluoromethane	94	93	26-151	5	30				
1,1-Dichloroethane	115	115	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	5	30				
1,1-Dichloroethene	126	124	61-149	5	30				
cis-1,2-Dichloroethene	113	111	60-136	5	30				
trans-1,2-Dichloroethene	116	115	59-142	5	30				
1,2-Dichloropropane	114	113	62-135	5	30				
1,3-Dichloropropane	103	106	58-129	8	30				
2,2-Dichloropropane	102	102	53-147	6	30				
1,1-Dichloropropene	116	114	54-145	4	30				
cis-1,3-Dichloropropene	101	103	51-131	8	30				
trans-1,3-Dichloropropene	94	96	49-129	8	30				
Ethylbenzene	116	112	44-141	3	30				
Freon 113	136	132	56-156	3	30				
Freon 133a	115	109	61-131	8	30				
Hexachlorobutadiene	106	100	10-155	0	30				
2-Hexanone	82	90	32-160	15	30				
Isopropylbenzene	117	112	38-144	2	30				
p-Isopropyltoluene	124	116	29-152	1	30				
Methyl Tertiary Butyl Ether	88	94	55-129	13	30				
4-Methyl-2-pentanone	83	93	46-139	17	30				
Methylene Chloride	116	113	61-141	4	30				
n-Propylbenzene	134	123	39-157	3	30				
Styrene	107	103	35-134	3	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	7	30				
1,1,2,2-Tetrachloroethane	103	105	40-152	8	30				
Tetrachloroethene	115	112	42-149	3	30				
Toluene	116	114	50-146	4	30				
1,2,3-Trichlorobenzene	91	91	10-140	5	30				
1,2,4-Trichlorobenzene	90	89	10-136	5	30				
1,1,1-Trichloroethane	99	97	64-142	4	30				
1,1,2-Trichloroethane	103	105	54-139	8	30				
Trichloroethene	113	111	53-144	4	30				
Trichlorofluoromethane	115	112	47-163	3	30				
1,2,3-Trichloropropane	98	101	45-154	9	30				
1,2,4-Trimethylbenzene	118	113	37-149	2	30				
1,3,5-Trimethylbenzene	124	116	38-150	0	30				
Vinyl Chloride	109	107	50-154	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m+p-Xylene	114	110	44-137	3	30				
o-Xylene	107	105	42-137	4	30				
Batch number: E111152AA	Sample number(s): 6266021,6266023,6266025 UNSPK: P264845								
1,4-Dioxane	96	100	70-130	0	30				
Batch number: 11119SLA026	Sample number(s): 6266008-6266016,6266018-6266026 UNSPK: 6266014								
Acenaphthene	83	89	75-115	7	30				
Acenaphthylene	86	91	81-110	6	30				
Aniline	57	63	35-95	11	30				
Anthracene	84	91	75-115	8	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	84	91	65-122	8	30				
Benzo(a)pyrene	77	80	57-126	4	30				
Benzo(b)fluoranthene	77	80	59-125	3	30				
Benzo(g,h,i)perylene	91	85	59-127	7	30				
Benzo(k)fluoranthene	75	83	56-132	10	30				
Benzoic acid	63	77	10-173	20	30				
Benzyl alcohol	83	85	67-115	2	30				
4-Bromophenyl-phenylether	91	98	67-129	7	30				
Butylbenzylphthalate	97	99	73-134	2	30				
Di-n-butylphthalate	85	120	67-123	35*	30				
Carbazole	80	86	64-120	8	30				
4-Chloro-3-methylphenol	79	87	76-110	10	30				
4-Chloroaniline	26	39	23-95	40*	30				
bis(2-Chloroethoxy)methane	83	89	75-104	6	30				
bis(2-Chloroethyl)ether	86	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	81	55-142	3	30				
2-Chloronaphthalene	90	92	50-141	2	30				
2-Chlorophenol	85	87	73-121	2	30				
4-Chlorophenyl-phenylether	83	90	80-109	7	30				
Chrysene	86	92	62-128	7	30				
Dibenz(a,h)anthracene	93	84	65-125	9	30				
Dibenzofuran	84	90	71-112	6	30				
1,2-Dichlorobenzene	80	80	66-108	0	30				
1,3-Dichlorobenzene	80	78	63-109	3	30				
1,4-Dichlorobenzene	80	80	70-100	0	30				
3,3'-Dichlorobenzidine	52	65	16-119	23	30				
2,4-Dichlorophenol	86	91	78-117	6	30				
Diethylphthalate	81	87	66-118	6	30				
2,4-Dimethylphenol	87	90	78-110	4	30				
3,5-Dimethylphenol	87	90	70-130	4	30				
Dimethylphthalate	82	87	64-118	6	30				
4,6-Dinitro-2-methylphenol	46	51	24-116	10	30				
2,4-Dinitrophenol	32	37	20-143	15	30				
2,4-Dinitrotoluene	83	86	73-113	4	30				
2,6-Dinitrotoluene	83	89	69-123	8	30				
1,2-Diphenylhydrazine	94	101	71-129	7	30				
bis(2-Ethylhexyl)phthalate	93	100	63-122	7	30				
Fluoranthene	96	106	73-112	10	30				
Fluorene	83	86	77-111	4	30				
Hexachlorobenzene	91	96	77-114	4	30				
Hexachlorobutadiene	93	94	62-120	1	30				

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Reported: 05/27/11 at 11:48 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorocyclopentadiene	58	64	10-153	10	30				
Hexachloroethane	72	98	57-109	31*	30				
Indeno(1,2,3-cd)pyrene	90	85	61-126	6	30				
Isophorone	83	88	73-102	5	30				
1-Methylnaphthalene	83	88	73-112	6	30				
2-Methylnaphthalene	80	84	76-114	5	30				
2-Methylphenol	80	83	75-111	4	30				
4-Methylphenol	74	81	71-111	9	30				
Naphthalene	82	87	72-116	6	30				
2-Nitroaniline	83	89	67-125	7	30				
3-Nitroaniline	77	82	59-122	6	30				
4-Nitroaniline	57	61	52-112	6	30				
Nitrobenzene	118*	123*	72-106	3	30				
2-Nitrophenol	82	91	74-115	10	30				
4-Nitrophenol	75	81	54-113	7	30				
N-Nitroso-di-n-propylamine	78	82	60-116	5	30				
N-Nitrosodimethylamine	52	107	47-116	69*	30				
N-Nitrosodiphenylamine	89	95	86-145	7	30				
Di-n-octylphthalate	83	87	56-126	5	30				
Pentachlorophenol	69	55	28-127	23	30				
Phenanthrene	82	90	65-125	8	30				
Phenol	83	83	58-126	1	30				
Pyrene	90	95	74-126	5	30				
1,2,4-Trichlorobenzene	87	90	72-115	3	30				
2,4,5-Trichlorophenol	86	89	78-109	4	30				
2,4,6-Trichlorophenol	92	96	77-115	4	30				
Batch number: 11120SLB026	Sample number(s): 6266008-6266014,6266018-6266019 UNSPK: 6266014								
N-Nitrosodimethylamine	101	68*	70-130	35*	30				
Batch number: 11120SLC026	Sample number(s): 6266008-6266016,6266018-6266026 UNSPK: 6266014								
Acenaphthene	85	86	63-105	1	30				
Acenaphthylene	86	88	67-114	2	30				
Anthracene	91	91	60-122	0	30				
Benzo(a)anthracene	90	90	59-128	0	30				
Benzo(a)pyrene	103	103	45-138	0	30				
Benzo(b)fluoranthene	101	93	43-155	8	30				
Benzo(g,h,i)perylene	104	101	33-141	3	30				
Benzo(k)fluoranthene	100	107	42-144	6	30				
Butylbenzylphthalate	97	100	57-173	2	30				
Di-n-butylphthalate	104	101	65-148	2	30				
Chrysene	88	89	48-134	0	30				
Dibenz(a,h)anthracene	125	124	22-133	2	30				
Diethylphthalate	67*	66*	70-136	2	30				
Dimethylphthalate	92	91	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	73	118	39-167	18	30				
Fluoranthene	96	98	26-166	2	30				
Fluorene	88	90	66-122	2	30				
Indeno(1,2,3-cd)pyrene	120	118	21-143	2	30				
1-Methylnaphthalene	90	90	72-123	1	30				
2-Methylnaphthalene	82	80	64-103	2	30				
Naphthalene	89	87	61-102	3	30				
N-Nitrosodimethylamine	88	86	48-113	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	111	110	40-192	1	30				
Phenanthrene	86	87	12-165	0	30				
Pyrene	75	75	15-153	0	30				
Batch number: 111200020A	Sample number(s): 6266008-6266014,6266018-6266019,6266021-6266026 UNSPK: P264845								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	100	100	80-131	0	50				
2,6-Dinitrotoluene	103	105	80-127	2	50				
HMX	93	94	63-128	1	50				
Nitrobenzene	103	99	80-125	3	50				
Nitroglycerin	95	95	80-120	1	50				
2-Nitrotoluene	98	99	80-122	1	50				
3-Nitrotoluene	101	103	72-119	2	50				
4-Nitrotoluene	97	99	80-125	2	50				
PETN	119	126*	80-121	6	50				
RDX	96	99	75-129	3	50				
Tetryl	84	88	55-174	4	50				
1,3,5-Trinitrobenzene	100	99	82-126	1	50				
2,4,6-Trinitrotoluene	105	105	82-130	0	50				
Batch number: 111170004A	Sample number(s): 6266008-6266014,6266018-6266019 UNSPK: 6266014								
25a Formaldehyde 8315A	88	92	80-120	4	50				
Batch number: 111220020A	Sample number(s): 6266008,6266010-6266011,6266013,6266018 UNSPK: 6266008								
6a Perchlorate EPA 6850	107	111	80-120	4	20				
Batch number: 111180003A	Sample number(s): 6266008-6266016,6266018-6266026 UNSPK: 6266014								
PCB-1016	92	89	29-146	3	50				
PCB-1260	102	99	39-149	3	50				
Batch number: 111180037A	Sample number(s): 6266008-6266014,6266018-6266019 UNSPK: 6266014								
EFH (C12-C14)	96	105	49-123	8	20				
EFH (C15-C20)	85	186*	49-123	29*	20				
EFH (C21-C30)	81 (2)	1098 (2)	49-123	89*	20				
EFH (C30 - C40)	93 (2)	1367 (2)	49-123	69*	20				
EFH (C8-C11)	61	69	49-123	13	20				
Batch number: 111150003A	Sample number(s): 6266010-6266013 UNSPK: P264845								
Diethylene glycol	82	26*	59-109	104*	20				
Ethylene glycol	84	64	63-107	27*	20				
Propylene glycol	82	63	63-107	26*	20				
Batch number: 111160024A	Sample number(s): 6266014,6266018-6266019,6266021-6266026 UNSPK: 6266014								
Diethylene glycol	85	102	59-109	18	20				
Ethylene glycol	91	100	63-107	10	20				
Propylene glycol	91	97	63-107	6	20				
Batch number: 111160037A	Sample number(s): 6266008-6266014,6266018-6266019 UNSPK: P264845								
Ethanol	79	80	48-130	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropanol	80	80	12-149	0	20				
Methanol	78	79	43-138	2	20				
Batch number: 111170001A	Sample number(s): 6266008-6266009 UNSPK: P267467								
Diethylene glycol	88	88	59-109	1	20				
Ethylene glycol	86	86	63-107	1	20				
Propylene glycol	87	84	63-107	4	20				
Batch number: 111230018A	Sample number(s): 6266008-6266014,6266018-6266019 UNSPK: 6266014								
m-Terphenyl	81	83	75-125	3	20				
o-Terphenyl	95	97	75-125	3	20				
p-Terphenyl	89	91	75-125	3	20				
Batch number: 111171026003A	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Antimony	42*	33*	75-125	16	20	0.134 J	0.0605 J	75* (1)	20
Arsenic	107	93	75-125	3	20	4.80	4.17	14	20
Beryllium	110	106	75-125	0	20	0.485	0.489	1 (1)	20
Cadmium	111	110	75-125	2	20	0.120	0.141	16 (1)	20
Chromium	133*	121	75-125	2	20	22.0	21.1	4	20
Cobalt	113	108	75-125	2	20	6.18	5.96	4	20
Copper	117	114	75-125	0	20	9.41	9.17	3	20
Lead	113	140*	75-125	9	20	6.63	6.06	9	20
Nickel	117	111	75-125	1	20	13.0	12.5	3	20
Silver	109	107	75-125	1	20	0.0450 J	0.0257 J	55* (1)	20
Thallium	102	110	75-125	7	20	0.249	0.221	12 (1)	20
Vanadium	121	108	75-125	2	20	36.9	36.9	0	20
Zinc	114 (2)	127 (2)	75-125	2	20	57.2	55.0	4	20
Batch number: 111171026003B	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Selenium	100	103	75-125	6	20	0.160 J	0.119 J	29* (1)	20
Batch number: 111171026003C	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Molybdenum	105	104	75-125	2	20	0.423	0.330	25* (1)	20
Batch number: 111171026003D	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Barium	255 (2)	134 (2)	75-125	10	20	89.1	84.1	6	20
Batch number: 111175708003	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Aluminum	950 (2)	718 (2)	75-125	3	20	14,200	14,100	1	20
Boron	93	95	84-115	1	20	3.43 J	3.42 J	0 (1)	20
Calcium	125 (2)	114 (2)	75-125	1	20	3,160	3,120	1	20
Iron	246 (2)	-498 (2)	75-125	4	20	20,900	20,900	0	20
Lithium	97	98	82-114	0	20	25.8	25.5	1	20
Magnesium	135 (2)	-11 (2)	75-125	5	20	5,770	5,650	2	20
Manganese	66 (2)	61 (2)	75-125	1	20	291	292	0	20
Phosphorus	89 (2)	106 (2)	75-125	3	20	454	460	1	20
Potassium	126*	109	75-125	4	20	3,520	3,510	0	20
Sodium	93	96	75-125	2	20	84.0 J	75.4 J	11 (1)	20
Strontium	98	100	75-115	0	20	15.7	15.7	0	20
Tin	82	84	80-110	1	20	2.46 J	2.35 J	5 (1)	20
Titanium	220 (2)	210 (2)	75-125	1	20	1,140	1,130	1	20
Zirconium	96	96	75-125	0	20	0.824 U	1.14 J	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111175711002	Sample number(s): 6266008-6266026 UNSPK: 6266014 BKG: 6266014								
Mercury	100	97	65-135	1	20	0.0178 J	0.0161 J	10 (1)	20
Batch number: 11122102201A	Sample number(s): 6266008-6266013,6266018 UNSPK: P264845 BKG: P264845								
17a Cyanide by 9012B	99		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11122102201B	Sample number(s): 6266014,6266019 UNSPK: 6266014 BKG: 6266014								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11127621201A	Sample number(s): 6266008-6266015,6266017-6266020 UNSPK: 6266014 BKG: 6266014								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11127621201B	Sample number(s): 6266021-6266026 UNSPK: 6266021 BKG: 6266021								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11128621201A	Sample number(s): 6266008-6266015,6266017-6266020 UNSPK: 6266014 BKG: 6266014								
11a Anions by 300.0 - Fluoride	64*		80-120			1.3	1.3	3 (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			1.4 J	1.9	30* (1)	20
Batch number: 11128621201B	Sample number(s): 6266021-6266026 UNSPK: 6266021 BKG: 6266021								
11a Anions by 300.0 - Fluoride	48*		80-120			7.3	6.6	10	20
Batch number: 11129243203A	Sample number(s): 6266008-6266015,6266017-6266026 UNSPK: 6266014 BKG: 6266014								
3a Cr VI by EPA 7199	131*		75-125			0.40 J	0.20 U	200* (1)	20
Batch number: 11116039401B	Sample number(s): 6266008-6266013 BKG: P264845								
18a pH by 9045C						6.49	6.50	0	1
Batch number: 11116039402A	Sample number(s): 6266014,6266017-6266025 BKG: 6266014								
18a pH by 9045C						6.83	6.83	0	1
Batch number: 11116039402B	Sample number(s): 6266026 BKG: P267473								
18a pH by 9045C						6.86	6.87	0	1
Batch number: 11116182101B	Sample number(s): 6266008-6266013 BKG: P264845								
32a OR Potential						415	416	0	6
Batch number: 11116182102A	Sample number(s): 6266014,6266017-6266025 BKG: 6266014								
32a OR Potential						389	391	1	6
Batch number: 11116182102B	Sample number(s): 6266026 BKG: P266079								
32a OR Potential						407	407	0	6
Batch number: 11123162401A	Sample number(s): 6266020 BKG: P267473								
Moisture Content by 160.3						10.8	11.0	2	20
Batch number: 11133162401B	Sample number(s): 6266008-6266019,6266021-6266026 BKG: 6266014								
28a Moisture Content by 160.3						6.4	6.0	7	20
Moisture Content by 160.3						6.4	6.0	7	20
Moisture Content by 160.3						6.4	6.0	7	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6266021	97	98	101	89
6266023	98	98	99	90
6266025	96	96	101	89
Blank	98	101	101	89
LCS	99	99	104	98
MS	96	94	104	95
MSD	97	99	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111121AA

	Toluene-d8
6266027	99
Blank	100
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111152AA

	Toluene-d8
6266021	96
6266023	97
6266025	96
Blank	97
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6266027	108	98	100	106
Blank	111	101	100	103
LCS	111	100	99	107
LCSD	108	100	99	108
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11119SLA026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6266008	75	77	70	76	95	72
6266009	89	60	60	92	93	84
6266010	85	90	76	95	88	78
6266011	68	70	86	105	95	86
6266012	81	85	73	89	99	80
6266013	81	86	72	88	94	77
6266014	84	75	79	87	88	83
6266015	87	86	83	117	91	83
6266016	84	86	82	115	92	85
6266018	77	80	74	84	91	76
6266019	80	85	80	91	98	81
6266020	84	88	75	89	96	85
6266021	78	80	66	79	83	80
6266022	85	86	90	86	84	79
6266023	82	83	87	87	85	80
6266024	83	86	92	88	89	83
6266025	84	86	92	89	87	83
6266026	85	87	92	88	89	77
Blank	113	135*	135*	88	88	116
LCS	92	135*	93	93	93	133
MS	87	86	83	117	91	83
MSD	84	86	82	115	92	85
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11120SLB026

	N-Nitrosodimethylamine-d6
6266008	126
6266009	141
6266010	131
6266011	120
6266012	114
6266013	114
6266014	122
6266018	138
6266019	148
Blank	97
LCS	100
MS	112
MSD	118
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6266008	139*	145*	136*
6266009	97	85	77
6266010	136*	143*	149*
6266011	146*	143*	142*
6266012	154*	147*	158*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

6266013	151*	133*	150*
6266014	93	87	80
6266015	94	82	76
6266016	97	87	79
6266018	101	85	85
6266019	90	74	80
6266020	101	87	89
6266021	90	83	86
6266022	86	82	81
6266023	88	83	86
6266024	79	76	77
6266025	88	81	83
6266026	89	83	86
Blank	94	92	98
LCS	86	83	87
MS	94	82	76
MSD	97	87	79
Limits:	40-130	45-130	45-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111170004A

	Butyraldehyde
6266008	100
6266009	96
6266010	101
6266011	101
6266012	100
6266013	101
6266014	103
6266018	100
6266019	98
Blank	103
LCS	100
MS	96
MSD	95
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111180003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6266008	81	93
6266009	88	92
6266010	104	110
6266011	66	75
6266012	72	60
6266013	62	48
6266014	81	87
6266015	87	89
6266016	84	92
6266018	66	74
6266019	63	83
6266020	93	90
6266021	71	82
6266022	76	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

6266023	70	81
6266024	76	89
6266025	78	90
6266026	78	86
Blank	88	90
LCS	80	79
LCSD	88	93
MS	87	89
MSD	84	92
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111200020A

	2-Nitro-m-xylene
6266008	78*
6266009	107
6266010	123
6266011	118
6266012	113
6266013	103
6266014	113
6266018	116
6266019	104
6266021	111
6266022	126
6266023	116
6266024	115
6266025	111
6266026	109
Blank	87
LCS	123
LCSD	122
MS	147*
MSD	128
Limits:	80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111150003A

	Tetramethylene glycol
6266010	44
6266011	37
6266012	51
6266013	42
Blank	101
LCS	103
MS	92
MSD	59
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111160024A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243433
Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

6266014	87
6266018	59
6266019	80
6266021	79
6266022	85
6266023	80
6266024	82
6266025	74
6266026	78
Blank	101
LCS	109
MS	113
MSD	103
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111160037A

	Acetone
6266008	77
6266009	76
6266010	81
6266011	66
6266012	84
6266013	75
6266014	79
6266018	64
6266019	71
Blank	96
LCS	96
MS	80
MSD	78
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111170001A

	Tetramethylene glycol
6266008	82
6266009	75
Blank	101
LCS	109
MS	91
MSD	88
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111180037A

	Chlorobenzene	Orthoterphenyl
6266008	65	101
6266009	62	93
6266010	0*	97

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Quality Control Summary

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Reported: 05/27/11 at 11:48 AM

Surrogate Quality Control

6266011	68	106
6266012	0*	109
6266013	0*	108
6266014	57	98
6266018	72	99
6266019	68	97
Blank	79	91
LCS	76	92
MS	80	99
MSD	79	104
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111230018A

	n-Triacontane-d62
6266008	64
6266009	66
6266010	103
6266011	112
6266012	137
6266013	61
6266014	72
6266018	57
6266019	60
Blank	78
LCS	80
MS	73
MSD	75
Limits:	50-150

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acct# 13013 Gp# 1243433 Sample# 6266008-27

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-004-SA8N-SB-4.5	04.21.11	1023	SOIL	NONE	4-Encores										X	X											
SL-004-SA8N-SB-4.0-5.0	04.21.11	1025	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-004-SA8N-SB-9.0-10.0	04.21.11	1035	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-4.5	04.21.11	1155	SOIL	NONE	4-Encores										X	X											
SL-005-SA8N-SB-4.0-5.0	04.21.11	1157	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-9.0-10.0	04.21.11	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-4.5	04.21.11	1500	SOIL	NONE	4-Encores										X	X											
SL-006-SA8N-SB-4.0-5.0	04.21.11	1503	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-9.0-10.0	04.21.11	1510	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
TB-042111	04.21.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time: 04/21/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time: 4/22/11 0700		Airbill No.(s): 8695 1442 0236, 8700 5932 3010																								

acct #13013 Gp# 1243433 Sample# 62660008-27

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stephen Brutch

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-ERH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	1 SS sleeve			X	X															
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	1 SS sleeve			X	X															
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	1 SS sleeve			X	X															
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	1 SS sleeve			X	X															
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											MS/MSD
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-119-SA8N-SS-0.0-0.5	04.21.11	0900	SOIL	NONE	1-16 oz jars										X	X	X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	1 SS sleeve			X	X															
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/21/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	4/22/11 0900	8695 1442 0247, 8700 5932 3010	

Nicole Maljovec A#13013 G#1243433 S#G266008-27

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, April 28, 2011 7:04 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: RE: 4/21 Samples: label/COC Discrepancy on depths

Hi Nicole – please use the sample numbers from the bottles and not the COC. Always default to the bottles!

Thanks, Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, April 28, 2011 1:55 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 4/21 Samples: label/COC Discrepancy on depths

Hi again,
We had two labels that didn't match the COCs. Sample SL-005-SA8N-SB-9.0-10.0 and SL-006-SA8N-SB-9.0-10.0 had 8.0-9.0 on the bottle labels. It's documented on 1243435d. We entered the sample IDs from the COC. Please let me know if the depths should be changed to 8.0-9.0.

Thanks!
Nicole

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Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

acct #13013 Gp #1243433 Sample # 62666008-27

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP If Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which aliquots were collected						*Metals EPA 6010B/6020/7471A	*Titanium EPA 200.8	SVOCs EPA 8270C & PAHs EPA 8310	PCBs/PCTs EPA 8082	*Diesel Range EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (HPA)	*TPH-DRO EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*n-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	*Total Organic Carbon EPA 9060	*Glycols EPA 8015B	*Alcohols EPA 8015B	
Samplers Signature: Stef J Brutch																						
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																	
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	1 SS sleeve			X	X													
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	1 SS sleeve			X	X													
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	1 SS sleeve			X	X													
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	1 SS sleeve			X	X													
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	1 SS sleeve			X	X													
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	1 SS sleeve			X	X													
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									MS/MSD
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2 SS sleeve			X	X													MS/MSD
SL-119-SA8N-SS-0.0-0.5	04.21.11	0900	SOIL	NONE	1-16 oz jars										X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	1 SS sleeve			X	X													
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	1 SS sleeve			X	X													
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X									
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1 SS sleeve			X	X													
Relinquished by: (Signature)	Date/Time 04/21/2011 / 1700		Received for Laboratory by: (Signature)																			Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 4/22/11 0900		Airbill No.(s) 8695 1442 0247, 8700 5932 3010																			

Amended COC

acct# 13013 Gp# 1243433 Sample# 6260008-27

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signature:						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diquat/Paraquat EPA 16130	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Glycols EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-004-SA8N-SB-4.5	04.21.11	1023	SOIL	NONE	4-Encores										X	X												
SL-004-SA8N-SB-4.0-5.0	04.21.11	1025	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
SL-004-SA8N-SB-9.0-10.0	04.21.11	1035	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
SL-005-SA8N-SB-4.5	04.21.11	1155	SOIL	NONE	4-Encores										X	X												
SL-005-SA8N-SB-4.0-5.0	04.21.11	1157	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
~~SL-005-SA8N-SB-9.0-10.0~~ 8.0-9.0	04.21.11	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
SL-006-SA8N-SB-4.5	04.21.11	1500	SOIL	NONE	4-Encores										X	X												
SL-006-SA8N-SB-4.0-5.0	04.21.11	1503	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
~~SL-006-SA8N-SB-9.0-10.0~~ 8.0-9.0	04.21.11	1510	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X			
TB-042111	04.21.11	0800	WATER	NONE	3-40 mL vials										X	X												TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/21/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	4/22/11 0700	8695 1442 0236, 8700 5932 3010	

The sample IDs above were updated to match the bottle labels per PB.
NLM 4/29/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/22/2011
Group Number: 1243435
SDG: DX076
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-111-SA8N-SS-0.0-0.5 Soil	6266032
SL-112-SA8N-SS-0.0-0.5 Soil	6266033
SL-115-SA8N-SS-0.0-0.5 Soil	6266034
SL-116-SA8N-SS-0.0-0.5 Soil	6266035
SL-117-SA8N-SS-0.0-0.5 Soil	6266036
SL-118-SA8N-SS-0.0-0.5 Soil	6266037
SL-119-SA8N-SS-0.0-0.5 Soil	6266038
SL-119-SA8N-SS-0.0-0.5MS Soil	6266039
SL-119-SA8N-SS-0.0-0.5MSD Soil	6266040
SL-125-SA8N-SS-0.0-0.5 Soil	6266041
SL-126-SA8N-SS-0.0-0.5 Soil	6266042
DUP06-SA8N-QC-042111 Soil	6266043
SL-004-SA8N-SB-4.0-5.0 Soil	6266044
SL-004-SA8N-SB-9.0-10.0 Soil	6266045
SL-005-SA8N-SB-4.0-5.0 Soil	6266046
SL-005-SA8N-SB-8.0-9.0 Soil	6266047
SL-006-SA8N-SB-4.0-5.0 Soil	6266048
SL-006-SA8N-SB-8.0-9.0 Soil	6266049

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
ELECTRONIC Data Package Group
COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266032
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7601 SDG#: DX076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266032
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7601 SDG#: DX076-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0247	U	0.0247	1.13	1
11031	12378-PeCDD	40321-76-4	0.262	JB	0.0552	5.63	1
11031	123478-HxCDD	39227-28-6	0.379	JB	0.0957	5.63	1
11031	123678-HxCDD	57653-85-7	1.19	JB	0.0991	5.63	1
11031	123789-HxCDD	19408-74-3	1.09	JB	0.0927	5.63	1
11031	1234678-HpCDD	35822-46-9	25.7	B	0.0855	5.63	1
11031	OCDD	3268-87-9	267	B	0.0913	11.3	1
11031	2378-TCDF	51207-31-9	0.800	JB	0.147	1.13	1
11031	12378-PeCDF	57117-41-6	0.987	JB	0.0629	5.63	1
11031	23478-PeCDF	57117-31-4	1.37	JBQ	0.0648	5.63	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0697	5.63	1
11031	123678-HxCDF	57117-44-9	0.467	JB	0.0636	5.63	1
11031	123789-HxCDF	72918-21-9	0.445	JQ	0.0714	5.63	1
11031	234678-HxCDF	60851-34-5	0.570	JBQ	0.0656	5.63	1
11031	1234678-HpCDF	67562-39-4	3.37	JB	0.0396	5.63	1
11031	1234789-HpCDF	55673-89-7	0.303	JB	0.0538	5.63	1
11031	OCDF	39001-02-0	6.78	JB	0.0581	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-111-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266032
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7601 SDG#: DX076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SS-0.0-0.5

LLI Sample # SW 6266032
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7601 SDG#: DX076-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/06/2011 21:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266033
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7602 SDG#: DX076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266033
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7602 SDG#: DX076-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0322	JQ	0.0247	1.13	1
11031	12378-PeCDD	40321-76-4	0.156	JB	0.0399	5.67	1
11031	123478-HxCDD	39227-28-6	0.129	JB	0.0471	5.67	1
11031	123678-HxCDD	57653-85-7	0.434	JB	0.0494	5.67	1
11031	123789-HxCDD	19408-74-3	0.495	JB	0.0450	5.67	1
11031	1234678-HpCDD	35822-46-9	5.60	JB	0.0596	5.67	1
11031	OCDD	3268-87-9	53.4	B	0.0522	11.3	1
11031	2378-TCDF	51207-31-9	0.259	JBQ	0.0656	1.13	1
11031	12378-PeCDF	57117-41-6	0.313	JB	0.0334	5.67	1
11031	23478-PeCDF	57117-31-4	0.441	JB	0.0363	5.67	1
11031	123478-HxCDF	70648-26-9	0.630	JB	0.0513	5.67	1
11031	123678-HxCDF	57117-44-9	0.197	JB	0.0447	5.67	1
11031	123789-HxCDF	72918-21-9	0.357	J	0.0501	5.67	1
11031	234678-HxCDF	60851-34-5	0.219	JB	0.0436	5.67	1
11031	1234678-HpCDF	67562-39-4	1.08	JB	0.0596	5.67	1
11031	1234789-HpCDF	55673-89-7	0.174	JBQ	0.0861	5.67	1
11031	OCDF	39001-02-0	1.76	JB	0.0845	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-112-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266033
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7602 SDG#: DX076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA8N-SS-0.0-0.5

LLI Sample # SW 6266033
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 13:15

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7602 SDG#: DX076-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/06/2011 22:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266034
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7603 SDG#: DX076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266034
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7603 SDG#: DX076-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.280	J	0.0401	1.12	1
11031	12378-PeCDD	40321-76-4	1.42	JB	0.119	5.58	1
11031	123478-HxCDD	39227-28-6	3.20	JB	0.0888	5.58	1
11031	123678-HxCDD	57653-85-7	9.62	B	0.0936	5.58	1
11031	123789-HxCDD	19408-74-3	5.78	B	0.0911	5.58	1
11031	1234678-HpCDD	35822-46-9	267	B	0.190	5.58	1
11031	OCDD	3268-87-9	2,200	B	0.191	11.2	1
11031	2378-TCDF	51207-31-9	1.89	B	0.167	1.12	1
11650	2378-TCDF-Conf	51207-31-9	1.58	B	0.0660	1.12	1
11031	12378-PeCDF	57117-41-6	1.80	JB	0.0838	5.58	1
11031	23478-PeCDF	57117-31-4	2.94	JB	0.0913	5.58	1
11031	123478-HxCDF	70648-26-9	2.48	JB	0.0779	5.58	1
11031	123678-HxCDF	57117-44-9	1.69	JB	0.0749	5.58	1
11031	123789-HxCDF	72918-21-9	0.418	JQ	0.0776	5.58	1
11031	234678-HxCDF	60851-34-5	2.31	JB	0.0764	5.58	1
11031	1234678-HpCDF	67562-39-4	24.1	B	0.0928	5.58	1
11031	1234789-HpCDF	55673-89-7	2.08	JB	0.111	5.58	1
11031	OCDF	39001-02-0	55.6	B	0.0869	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-2378-TCDF-Conf	65	24 - 169
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266034
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7603 SDG#: DX076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA8N-SS-0.0-0.5

LLI Sample # SW 6266034
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7603 SDG#: DX076-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/06/2011 23:19	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11124002	05/24/2011 22:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266035
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7604 SDG#: DX076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266035
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7604 SDG#: DX076-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0806	JQ	0.0457	1.20	1
11031	12378-PeCDD	40321-76-4	0.728	JBQ	0.112	5.98	1
11031	123478-HxCDD	39227-28-6	0.952	JB	0.148	5.98	1
11031	123678-HxCDD	57653-85-7	3.45	JB	0.152	5.98	1
11031	123789-HxCDD	19408-74-3	2.11	JB	0.152	5.98	1
11031	1234678-HpCDD	35822-46-9	78.3	B	0.155	5.98	1
11031	OCDD	3268-87-9	594	B	0.131	12.0	1
11031	2378-TCDF	51207-31-9	0.408	U	0.408	1.20	1
11031	12378-PeCDF	57117-41-6	1.79	JB	0.107	5.98	1
11031	23478-PeCDF	57117-31-4	2.60	JBQ	0.128	5.98	1
11031	123478-HxCDF	70648-26-9	2.76	JB	0.103	5.98	1
11031	123678-HxCDF	57117-44-9	1.30	JB	0.0994	5.98	1
11031	123789-HxCDF	72918-21-9	0.477	J	0.107	5.98	1
11031	234678-HxCDF	60851-34-5	1.40	JB	0.119	5.98	1
11031	1234678-HpCDF	67562-39-4	8.93	B	0.104	5.98	1
11031	1234789-HpCDF	55673-89-7	0.915	JBQ	0.140	5.98	1
11031	OCDF	39001-02-0	12.2	B	0.0653	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	46	25 - 164
13C12-12378-PeCDD	44	25 - 181
13C12-123478-HxCDD	51	32 - 141
13C12-123678-HxCDD	52	28 - 130
13C12-123789-HxCDD	50	28 - 130
13C12-1234678-HpCDD	51	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	37	24 - 169
13C12-12378-PeCDF	47	24 - 185
13C12-23478-PeCDF	36	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	41	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	45	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-116-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266035
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7604 SDG#: DX076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SS-0.0-0.5

LLI Sample # SW 6266035
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7604 SDG#: DX076-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 00:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266036
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7605 SDG#: DX076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-117-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266036
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7605 SDG#: DX076-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0533	JQ	0.0187	1.05	1
11031	12378-PeCDD	40321-76-4	0.204	JBQ	0.0374	5.24	1
11031	123478-HxCDD	39227-28-6	0.289	JB	0.0589	5.24	1
11031	123678-HxCDD	57653-85-7	1.04	JB	0.0618	5.24	1
11031	123789-HxCDD	19408-74-3	0.661	JB	0.0614	5.24	1
11031	1234678-HpCDD	35822-46-9	31.5	B	0.0840	5.24	1
11031	OCDD	3268-87-9	359	B	0.0689	10.5	1
11031	2378-TCDF	51207-31-9	0.366	JBQ	0.0772	1.05	1
11031	12378-PeCDF	57117-41-6	0.133	JB	0.0412	5.24	1
11031	23478-PeCDF	57117-31-4	0.823	JB	0.0419	5.24	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.0575	5.24	1
11031	123678-HxCDF	57117-44-9	0.244	JBQ	0.0497	5.24	1
11031	123789-HxCDF	72918-21-9	0.207	JQ	0.0518	5.24	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0441	5.24	1
11031	1234678-HpCDF	67562-39-4	3.22	JB	0.0532	5.24	1
11031	1234789-HpCDF	55673-89-7	0.400	JBQ	0.0621	5.24	1
11031	OCDF	39001-02-0	8.95	JB	0.0440	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266036
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7605 SDG#: DX076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA8N-SS-0.0-0.5

LLI Sample # SW 6266036
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:20

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7605 SDG#: DX076-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 01:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266037
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7606 SDG#: DX076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266037
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7606 SDG#: DX076-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.102	JQ	0.0263	1.16	1
11031	12378-PeCDD	40321-76-4	0.489	JB	0.0536	5.81	1
11031	123478-HxCDD	39227-28-6	0.493	JB	0.0834	5.81	1
11031	123678-HxCDD	57653-85-7	1.94	JB	0.0878	5.81	1
11031	123789-HxCDD	19408-74-3	1.13	JB	0.0811	5.81	1
11031	1234678-HpCDD	35822-46-9	37.1	B	0.0852	5.81	1
11031	OCDD	3268-87-9	302	B	0.0761	11.6	1
11031	2378-TCDF	51207-31-9	0.513	JB	0.130	1.16	1
11031	12378-PeCDF	57117-41-6	0.418	JBQ	0.0523	5.81	1
11031	23478-PeCDF	57117-31-4	1.08	JB	0.0510	5.81	1
11031	123478-HxCDF	70648-26-9	0.983	JB	0.0528	5.81	1
11031	123678-HxCDF	57117-44-9	0.409	JBQ	0.0492	5.81	1
11031	123789-HxCDF	72918-21-9	0.264	J	0.0543	5.81	1
11031	234678-HxCDF	60851-34-5	0.637	JBQ	0.0476	5.81	1
11031	1234678-HpCDF	67562-39-4	3.71	JB	0.0481	5.81	1
11031	1234789-HpCDF	55673-89-7	0.313	JBQ	0.0551	5.81	1
11031	OCDF	39001-02-0	7.40	JB	0.0392	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266037
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7606 SDG#: DX076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA8N-SS-0.0-0.5

LLI Sample # SW 6266037
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:55

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7606 SDG#: DX076-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 02:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266038
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266038
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0702	J	0.0171	1.07	1
11031	12378-PeCDD	40321-76-4	0.253	JBQ	0.0215	5.34	1
11031	123478-HxCDD	39227-28-6	0.204	JB	0.0467	5.34	1
11031	123678-HxCDD	57653-85-7	0.568	JB	0.0471	5.34	1
11031	123789-HxCDD	19408-74-3	0.358	JBQ	0.0433	5.34	1
11031	1234678-HpCDD	35822-46-9	14.6	B	0.0629	5.34	1
11031	OCDD	3268-87-9	186	B	0.0720	10.7	1
11031	2378-TCDF	51207-31-9	0.114	JBQ	0.0329	1.07	1
11031	12378-PeCDF	57117-41-6	0.262	JB	0.0205	5.34	1
11031	23478-PeCDF	57117-31-4	0.485	JB	0.0212	5.34	1
11031	123478-HxCDF	70648-26-9	0.476	JB	0.0391	5.34	1
11031	123678-HxCDF	57117-44-9	0.256	JB	0.0360	5.34	1
11031	123789-HxCDF	72918-21-9	0.185	JQ	0.0396	5.34	1
11031	234678-HxCDF	60851-34-5	0.251	JB	0.0335	5.34	1
11031	1234678-HpCDF	67562-39-4	2.14	JB	0.0368	5.34	1
11031	1234789-HpCDF	55673-89-7	0.247	JB	0.0510	5.34	1
11031	OCDF	39001-02-0	4.33	JB	0.0493	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266038
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266038
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 03:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266039
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266039
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.6		0.0309	1.07	1
11031	12378-PeCDD	40321-76-4	111	B	0.0507	5.33	1
11031	123478-HxCDD	39227-28-6	114	B	0.0962	5.33	1
11031	123678-HxCDD	57653-85-7	112	B	0.101	5.33	1
11031	123789-HxCDD	19408-74-3	111	B	0.0962	5.33	1
11031	1234678-HpCDD	35822-46-9	137	B	0.123	5.33	1
11031	OCDD	3268-87-9	672	B	0.106	10.7	1
11031	2378-TCDF	51207-31-9	23.0	B	0.0547	1.07	1
11031	12378-PeCDF	57117-41-6	110	B	0.0432	5.33	1
11031	23478-PeCDF	57117-31-4	112	B	0.0463	5.33	1
11031	123478-HxCDF	70648-26-9	112	B	0.105	5.33	1
11031	123678-HxCDF	57117-44-9	110	B	0.0893	5.33	1
11031	123789-HxCDF	72918-21-9	110		0.112	5.33	1
11031	234678-HxCDF	60851-34-5	114	B	0.0906	5.33	1
11031	1234678-HpCDF	67562-39-4	116	B	0.0607	5.33	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0925	5.33	1
11031	OCDF	39001-02-0	236	B	0.0787	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-119-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266039
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266039
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 04:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266040
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266040
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5		0.0293	1.07	1
11031	12378-PeCDD	40321-76-4	112	B	0.0340	5.34	1
11031	123478-HxCDD	39227-28-6	111	B	0.0576	5.34	1
11031	123678-HxCDD	57653-85-7	111	B	0.0593	5.34	1
11031	123789-HxCDD	19408-74-3	110	B	0.0571	5.34	1
11031	1234678-HpCDD	35822-46-9	126	B	0.0726	5.34	1
11031	OCDD	3268-87-9	408	B	0.0639	10.7	1
11031	2378-TCDF	51207-31-9	22.4	B	0.0543	1.07	1
11031	12378-PeCDF	57117-41-6	109	B	0.0418	5.34	1
11031	23478-PeCDF	57117-31-4	111	B	0.0427	5.34	1
11031	123478-HxCDF	70648-26-9	111	B	0.0834	5.34	1
11031	123678-HxCDF	57117-44-9	111	B	0.0753	5.34	1
11031	123789-HxCDF	72918-21-9	110		0.0878	5.34	1
11031	234678-HxCDF	60851-34-5	110	B	0.0775	5.34	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0522	5.34	1
11031	1234789-HpCDF	55673-89-7	110	B	0.0755	5.34	1
11031	OCDF	39001-02-0	227	B	0.0646	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266040
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-119-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA8N-SS-0.0-0.5

LLI Sample # SW 6266040
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7607 SDG#: DX076-07MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 08:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266041
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7608 SDG#: DX076-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266041
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7608 SDG#: DX076-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0583	J	0.0292	1.22	1
11031	12378-PeCDD	40321-76-4	0.359	JBQ	0.0687	6.09	1
11031	123478-HxCDD	39227-28-6	0.340	JB	0.104	6.09	1
11031	123678-HxCDD	57653-85-7	0.970	JB	0.101	6.09	1
11031	123789-HxCDD	19408-74-3	0.955	JB	0.0933	6.09	1
11031	1234678-HpCDD	35822-46-9	16.1	B	0.0957	6.09	1
11031	OCDD	3268-87-9	177	B	0.0711	12.2	1
11031	2378-TCDF	51207-31-9	0.895	JB	0.116	1.22	1
11031	12378-PeCDF	57117-41-6	0.503	JB	0.0510	6.09	1
11031	23478-PeCDF	57117-31-4	1.26	JB	0.0578	6.09	1
11031	123478-HxCDF	70648-26-9	0.972	JB	0.0862	6.09	1
11031	123678-HxCDF	57117-44-9	0.543	JB	0.0783	6.09	1
11031	123789-HxCDF	72918-21-9	0.460	JQ	0.0746	6.09	1
11031	234678-HxCDF	60851-34-5	0.522	JB	0.0716	6.09	1
11031	1234678-HpCDF	67562-39-4	2.93	JB	0.0504	6.09	1
11031	1234789-HpCDF	55673-89-7	0.384	JBQ	0.0626	6.09	1
11031	OCDF	39001-02-0	5.93	JB	0.0627	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	53	25 - 181
13C12-123478-HxCDD	56	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	50	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	57	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266041
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7608 SDG#: DX076-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA8N-SS-0.0-0.5

LLI Sample # SW 6266041
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 14:00

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7608 SDG#: DX076-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 08:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266042
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7609 SDG#: DX076-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266042
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7609 SDG#: DX076-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441	J	0.0300	1.11	1
11031	12378-PeCDD	40321-76-4	0.171	J	0.0562	5.54	1
11031	123478-HxCDD	39227-28-6	0.298	JBQ	0.0861	5.54	1
11031	123678-HxCDD	57653-85-7	0.573	JB	0.0930	5.54	1
11031	123789-HxCDD	19408-74-3	0.462	J	0.0858	5.54	1
11031	1234678-HpCDD	35822-46-9	10.7	B	0.131	5.54	1
11031	OCDD	3268-87-9	90.6	B	0.0906	11.1	1
11031	2378-TCDF	51207-31-9	0.766	J	0.124	1.11	1
11031	12378-PeCDF	57117-41-6	0.288	JB	0.0587	5.54	1
11031	23478-PeCDF	57117-31-4	1.45	JB	0.0586	5.54	1
11031	123478-HxCDF	70648-26-9	1.30	JB	0.135	5.54	1
11031	123678-HxCDF	57117-44-9	0.506	JB	0.115	5.54	1
11031	123789-HxCDF	72918-21-9	0.265	JB	0.0666	5.54	1
11031	234678-HxCDF	60851-34-5	1.04	JB	0.0636	5.54	1
11031	1234678-HpCDF	67562-39-4	3.83	JB	0.115	5.54	1
11031	1234789-HpCDF	55673-89-7	0.453	JB	0.105	5.54	1
11031	OCDF	39001-02-0	4.92	JB	0.0916	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	35	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	67	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266042
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7609 SDG#: DX076-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA8N-SS-0.0-0.5

LLI Sample # SW 6266042
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:40

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7609 SDG#: DX076-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 03:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266043
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7610 SDG#: DX076-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266043
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7610 SDG#: DX076-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0250	JQ	0.0145	1.06	1
11031	12378-PeCDD	40321-76-4	0.0789	JBQ	0.0194	5.32	1
11031	123478-HxCDD	39227-28-6	0.0743	JBQ	0.0441	5.32	1
11031	123678-HxCDD	57653-85-7	0.490	JBQ	0.0468	5.32	1
11031	123789-HxCDD	19408-74-3	0.253	JB	0.0454	5.32	1
11031	1234678-HpCDD	35822-46-9	17.0	B	0.0616	5.32	1
11031	OCDD	3268-87-9	206	B	0.0462	10.6	1
11031	2378-TCDF	51207-31-9	0.0528	U	0.0528	1.06	1
11031	12378-PeCDF	57117-41-6	0.0607	JB	0.0211	5.32	1
11031	23478-PeCDF	57117-31-4	0.382	JB	0.0235	5.32	1
11031	123478-HxCDF	70648-26-9	0.473	JB	0.0381	5.32	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0326	5.32	1
11031	123789-HxCDF	72918-21-9	0.152	J	0.0388	5.32	1
11031	234678-HxCDF	60851-34-5	0.199	JB	0.0322	5.32	1
11031	1234678-HpCDF	67562-39-4	2.17	JB	0.0317	5.32	1
11031	1234789-HpCDF	55673-89-7	0.224	JBQ	0.0526	5.32	1
11031	OCDF	39001-02-0	4.91	JB	0.0343	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266043
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7610 SDG#: DX076-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042111 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042111

LLI Sample # SW 6266043
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 09:05

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7610 SDG#: DX076-10FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 10:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266044
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7611 SDG#: DX076-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266044
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7611 SDG#: DX076-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182 U	0.0182	1.18	1
11031	12378-PeCDD	40321-76-4	0.0184 U	0.0184	5.88	1
11031	123478-HxCDD	39227-28-6	0.0140 U	0.0140	5.88	1
11031	123678-HxCDD	57653-85-7	0.0218 JBQ	0.0147	5.88	1
11031	123789-HxCDD	19408-74-3	0.0304 JBQ	0.0135	5.88	1
11031	1234678-HpCDD	35822-46-9	0.287 JB	0.0216	5.88	1
11031	OCDD	3268-87-9	0.899 JBQ	0.0333	11.8	1
11031	2378-TCDF	51207-31-9	0.0159 JBQ	0.0156	1.18	1
11031	12378-PeCDF	57117-41-6	0.0101 JB	0.00936	5.88	1
11031	23478-PeCDF	57117-31-4	0.0712 JBQ	0.0108	5.88	1
11031	123478-HxCDF	70648-26-9	0.0615 JBQ	0.0145	5.88	1
11031	123678-HxCDF	57117-44-9	0.0431 JBQ	0.0123	5.88	1
11031	123789-HxCDF	72918-21-9	0.0514 J	0.0150	5.88	1
11031	234678-HxCDF	60851-34-5	0.0559 JBQ	0.0117	5.88	1
11031	1234678-HpCDF	67562-39-4	0.185 JBQ	0.0216	5.88	1
11031	1234789-HpCDF	55673-89-7	0.0727 JBQ	0.0378	5.88	1
11031	OCDF	39001-02-0	0.145 JBQ	0.0357	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266044
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7611 SDG#: DX076-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-4.0-5.0

LLI Sample # SW 6266044
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:25

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7611 SDG#: DX076-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 11:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266045
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7612 SDG#: DX076-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266045
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7612 SDG#: DX076-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0179 U	0.0179	1.13	1
11031	12378-PeCDD	40321-76-4	0.0347 JBQ	0.0198	5.63	1
11031	123478-HxCDD	39227-28-6	0.0236 JBQ	0.0151	5.63	1
11031	123678-HxCDD	57653-85-7	0.0516 JB	0.0155	5.63	1
11031	123789-HxCDD	19408-74-3	0.0366 JBQ	0.0148	5.63	1
11031	1234678-HpCDD	35822-46-9	0.587 JB	0.0308	5.63	1
11031	OCDD	3268-87-9	3.17 JB	0.0378	11.3	1
11031	2378-TCDF	51207-31-9	0.0269 U	0.0269	1.13	1
11031	12378-PeCDF	57117-41-6	0.0125 U	0.0125	5.63	1
11031	23478-PeCDF	57117-31-4	0.0725 JBQ	0.0135	5.63	1
11031	123478-HxCDF	70648-26-9	0.0585 JBQ	0.0135	5.63	1
11031	123678-HxCDF	57117-44-9	0.0498 JBQ	0.0109	5.63	1
11031	123789-HxCDF	72918-21-9	0.0492 JQ	0.0146	5.63	1
11031	234678-HxCDF	60851-34-5	0.0687 JB	0.0113	5.63	1
11031	1234678-HpCDF	67562-39-4	0.153 JBQ	0.0152	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0543 JBQ	0.0274	5.63	1
11031	OCDF	39001-02-0	0.224 JBQ	0.0344	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266045
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7612 SDG#: DX076-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SB-9.0-10.0

LLI Sample # SW 6266045
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 10:35

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7612 SDG#: DX076-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 12:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266046
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7613 SDG#: DX076-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266046
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7613 SDG#: DX076-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0369	JQ	0.0212	1.14	1
11031	12378-PeCDD	40321-76-4	0.124	JBQ	0.0243	5.72	1
11031	123478-HxCDD	39227-28-6	0.173	JBQ	0.0531	5.72	1
11031	123678-HxCDD	57653-85-7	0.787	JB	0.0556	5.72	1
11031	123789-HxCDD	19408-74-3	0.380	JB	0.0522	5.72	1
11031	1234678-HpCDD	35822-46-9	14.2	B	0.0657	5.72	1
11031	OCDD	3268-87-9	109	B	0.0461	11.4	1
11031	2378-TCDF	51207-31-9	0.0273	U	0.0273	1.14	1
11031	12378-PeCDF	57117-41-6	0.0382	JBQ	0.0167	5.72	1
11031	23478-PeCDF	57117-31-4	0.336	JB	0.0175	5.72	1
11031	123478-HxCDF	70648-26-9	0.118	JBQ	0.0444	5.72	1
11031	123678-HxCDF	57117-44-9	0.237	JBQ	0.0368	5.72	1
11031	123789-HxCDF	72918-21-9	0.112	J	0.0524	5.72	1
11031	234678-HxCDF	60851-34-5	0.420	JB	0.0399	5.72	1
11031	1234678-HpCDF	67562-39-4	1.30	JB	0.0286	5.72	1
11031	1234789-HpCDF	55673-89-7	0.133	JB	0.0523	5.72	1
11031	OCDF	39001-02-0	1.14	JB	0.0500	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266046
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7613 SDG#: DX076-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-4.0-5.0

LLI Sample # SW 6266046
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 11:57

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7613 SDG#: DX076-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266047
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7614 SDG#: DX076-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266047
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7614 SDG#: DX076-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0213	U	0.0213	1.11	1
11031	12378-PeCDD	40321-76-4	0.366	JBQ	0.0283	5.56	1
11031	123478-HxCDD	39227-28-6	0.422	JBQ	0.0760	5.56	1
11031	123678-HxCDD	57653-85-7	1.46	JB	0.0780	5.56	1
11031	123789-HxCDD	19408-74-3	1.23	JB	0.0738	5.56	1
11031	1234678-HpCDD	35822-46-9	18.1	B	0.0752	5.56	1
11031	OCDD	3268-87-9	115	B	0.0478	11.1	1
11031	2378-TCDF	51207-31-9	0.0279	JBQ	0.0271	1.11	1
11031	12378-PeCDF	57117-41-6	0.0794	JB	0.0226	5.56	1
11031	23478-PeCDF	57117-31-4	1.06	JB	0.0246	5.56	1
11031	123478-HxCDF	70648-26-9	0.253	JBQ	0.0522	5.56	1
11031	123678-HxCDF	57117-44-9	0.545	JB	0.0443	5.56	1
11031	123789-HxCDF	72918-21-9	0.227	J	0.0593	5.56	1
11031	234678-HxCDF	60851-34-5	1.22	JB	0.0472	5.56	1
11031	1234678-HpCDF	67562-39-4	1.60	JB	0.0310	5.56	1
11031	1234789-HpCDF	55673-89-7	0.190	JBQ	0.0558	5.56	1
11031	OCDF	39001-02-0	1.02	JB	0.0425	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266047
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7614 SDG#: DX076-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SB-8.0-9.0

LLI Sample # SW 6266047
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 12:30

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7614 SDG#: DX076-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Analysis Report

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266048
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7615 SDG#: DX076-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266048
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7615 SDG#: DX076-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0448	JQ	0.0172	1.20	1
11031	12378-PeCDD	40321-76-4	0.163	JBQ	0.0199	5.99	1
11031	123478-HxCDD	39227-28-6	0.141	JB	0.0335	5.99	1
11031	123678-HxCDD	57653-85-7	0.402	JB	0.0349	5.99	1
11031	123789-HxCDD	19408-74-3	0.239	JB	0.0328	5.99	1
11031	1234678-HpCDD	35822-46-9	7.47	B	0.0405	5.99	1
11031	OCDD	3268-87-9	75.3	B	0.0333	12.0	1
11031	2378-TCDF	51207-31-9	0.0466	JB	0.0159	1.20	1
11031	12378-PeCDF	57117-41-6	0.114	JBQ	0.00869	5.99	1
11031	23478-PeCDF	57117-31-4	0.212	JBQ	0.00977	5.99	1
11031	123478-HxCDF	70648-26-9	0.162	JB	0.0258	5.99	1
11031	123678-HxCDF	57117-44-9	0.145	JBQ	0.0198	5.99	1
11031	123789-HxCDF	72918-21-9	0.111	J	0.0334	5.99	1
11031	234678-HxCDF	60851-34-5	0.181	JB	0.0230	5.99	1
11031	1234678-HpCDF	67562-39-4	0.481	JB	0.0141	5.99	1
11031	1234789-HpCDF	55673-89-7	0.0899	JBQ	0.0349	5.99	1
11031	OCDF	39001-02-0	0.635	JB	0.0400	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266048
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7615 SDG#: DX076-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-4.0-5.0

LLI Sample # SW 6266048
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:03

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7615 SDG#: DX076-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266049
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7616 SDG#: DX076-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266049
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7616 SDG#: DX076-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0190 U	0.0190	1.18	1
11031	12378-PeCDD	40321-76-4	0.0574 JB	0.0223	5.89	1
11031	123478-HxCDD	39227-28-6	0.0326 JBQ	0.0178	5.89	1
11031	123678-HxCDD	57653-85-7	0.0479 JBQ	0.0180	5.89	1
11031	123789-HxCDD	19408-74-3	0.0375 JBQ	0.0163	5.89	1
11031	1234678-HpCDD	35822-46-9	0.315 JB	0.0246	5.89	1
11031	OCDD	3268-87-9	1.26 JB	0.0353	11.8	1
11031	2378-TCDF	51207-31-9	0.0225 JB	0.0190	1.18	1
11031	12378-PeCDF	57117-41-6	0.0748 JBQ	0.0101	5.89	1
11031	23478-PeCDF	57117-31-4	0.132 JB	0.0117	5.89	1
11031	123478-HxCDF	70648-26-9	0.0843 JB	0.0167	5.89	1
11031	123678-HxCDF	57117-44-9	0.0771 JB	0.0128	5.89	1
11031	123789-HxCDF	72918-21-9	0.0655 J	0.0187	5.89	1
11031	234678-HxCDF	60851-34-5	0.104 JB	0.0137	5.89	1
11031	1234678-HpCDF	67562-39-4	0.173 JB	0.0104	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0685 JBQ	0.0239	5.89	1
11031	OCDF	39001-02-0	0.207 JBQ	0.0437	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

LLI Sample # SW 6266049
LLI Group # 1243435
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/21/2011 15:10

Submitted: 04/22/2011 09:00
Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7616 SDG#: DX076-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SB-8.0-9.0

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Reported: 05/27/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7616 SDG#: DX076-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11124002	05/07/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11124002	05/05/2011 12:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243435
Reported: 05/27/11 at 02:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401A	Sample number(s): 6266043								
Moisture Content by 160.3					100		80-120		
Batch number: 11133162401B	Sample number(s): 6266032-6266042,6266044-6266049								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11124002	Sample number(s): 6266032-6266041,6266043-6266049								
2378-TCDD	0.0163 U	0.0163	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0508 J	0.0182	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0385 J	0.0205	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0301 J	0.0208	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0535 J	0.0195	5.00	ng/kg	104		64-162		
1234678-HpCDD	0.234 J	0.0398	5.00	ng/kg	103		70-140		
OCDD	0.375 J	0.0310	10.0	ng/kg	104		78-144		
2378-TCDF	0.0167 J	0.0157	1.00	ng/kg	113		75-158		
2378-TCDF-Conf	0.0476 J	0.0333	1.00	ng/kg					
12378-PeCDF	0.0166 J	0.00820	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0717 J	0.00890	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0519 J	0.0149	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0579 J	0.0128	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0174 U	0.0174	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0864 J	0.0139	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.146 J	0.0133	5.00	ng/kg	103		82-122		
1234789-HpCDF	0.0635 J	0.0258	5.00	ng/kg	105		78-138		
OCDF	0.168 J	0.0454	10.0	ng/kg	105		63-170		
Batch number: 11130001	Sample number(s): 6266042								
2378-TCDD	0.0281 U	0.0281	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0266 U	0.0266	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0476 J	0.0247	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0438 J	0.0263	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0248 U	0.0248	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.222 J	0.0426	5.00	ng/kg	88		70-140		
OCDD	0.374 J	0.0430	10.0	ng/kg	91		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0464 J	0.0168	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0806 J	0.0170	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0433 J	0.0238	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0492 J	0.0204	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0800 J	0.0211	5.00	ng/kg	89		78-130		
234678-HxCDF	0.112 J	0.0182	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.188 J	0.0202	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0898 J	0.0333	5.00	ng/kg	88		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243435
Reported: 05/27/11 at 02:13 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.189 J	0.0454	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401A	Sample number(s): 6266043 BKG: P267473								
Moisture Content by 160.3						10.8	11.0	2	20
Batch number: 11133162401B	Sample number(s): 6266032-6266042,6266044-6266049 BKG: P266014								
Moisture Content by 160.3						6.4	6.0	7	20
Batch number: 11124002	Sample number(s): 6266032-6266041,6266043-6266049 UNSPK: 6266038								
2378-TCDD	101	100	67-158	1	25				
12378-PeCDD	104	105	70-142	1	25				
123478-HxCDD	107	104	70-164	2	25				
123678-HxCDD	105	103	76-134	1	25				
123789-HxCDD	103	102	64-162	1	25				
1234678-HpCDD	115	104	70-140	9	25				
OCDD	228*	104	78-144	49*	25				
2378-TCDF	107	104	75-158	3	25				
12378-PeCDF	103	102	80-134	0	25				
23478-PeCDF	105	104	68-160	1	25				
123478-HxCDF	105	104	72-134	1	25				
123678-HxCDF	103	103	84-130	1	25				
123789-HxCDF	103	103	78-130	1	25				
234678-HxCDF	107	103	70-156	3	25				
1234678-HpCDF	107	102	82-122	4	25				
1234789-HpCDF	105	103	78-138	2	25				
OCDF	109	104	63-170	4	25				
Batch number: 11130001	Sample number(s): 6266042 UNSPK: P275773								
2378-TCDD	91	93	67-158	3	25				
12378-PeCDD	95	94	70-142	0	25				
123478-HxCDD	94	96	70-164	2	25				
123678-HxCDD	95	95	76-134	0	25				
123789-HxCDD	94	94	64-162	0	25				
1234678-HpCDD	93	93	70-140	0	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	106	104	75-158	1	25				
12378-PeCDF	98	98	80-134	1	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	101	97	72-134	3	25				
123678-HxCDF	98	96	84-130	1	25				
123789-HxCDF	95	94	78-130	0	25				
234678-HxCDF	101	98	70-156	3	25				
1234678-HpCDF	91	94	82-122	3	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDF	98	97	63-170	1	25				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243435
Reported: 05/27/11 at 02:13 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11124002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6266032	66	59	62	66	63	67
6266033	65	58	57	62	64	64
6266034	67	58	64	64	61	69
6266035	46	36	49	50	41	49
6266036	72	68	60	67	75	73
6266037	69	67	66	67	68	68
6266038	77	72	66	71	75	71
6266039	80	75	76	84	85	76
6266040	78	71	73	77	74	75
6266041	54	46	43	46	50	54
6266043	74	67	62	70	69	65
6266044	69	59	55	63	64	57
6266045	68	59	53	63	61	54
6266046	66	58	56	66	60	52
6266047	61	55	56	64	59	52
6266048	78	66	62	81	68	54
6266049	63	53	49	61	56	47
Blank	76	62	62	72	65	59
MS	80	75	76	84	85	76
MSD	78	71	73	77	74	75
OPR	69	62	61	71	66	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6266032	68	58	55	69	62	68
6266033	69	58	56	69	64	68
6266034	69	66	67	67	64	71
6266035	54	48	50	45	44	51
6266036	69	70	68	75	70	80
6266037	68	68	66	72	70	72
6266038	79	67	62	79	79	77
6266039	93	69	62	86	81	92
6266040	84	70	67	80	77	80
6266041	55	49	46	57	53	56
6266043	83	60	57	78	75	80
6266044	79	53	47	77	69	74
6266045	77	51	46	72	68	71
6266046	79	50	45	76	66	71
6266047	75	51	46	74	63	67
6266048	107	51	46	92	83	87
6266049	79	42	36	74	65	66
Blank	89	54	50	88	72	77
MS	93	69	62	86	81	92
MSD	84	70	67	80	77	80
OPR	84	56	52	83	68	75

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243435
Reported: 05/27/11 at 02:13 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6266032	65	67	64	61	63	63
6266033	67	69	68	65	61	67
6266034	69	69	69	69	59	66
6266035	52	50	51	52	37	47
6266036	77	77	74	71	69	72
6266037	68	71	69	67	66	68
6266038	77	81	77	73	73	80
6266039	91	90	81	76	78	85
6266040	79	80	79	76	74	77
6266041	56	59	57	54	50	56
6266043	76	78	76	72	69	79
6266044	73	75	71	66	62	72
6266045	69	71	69	64	60	68
6266046	68	70	68	63	59	66
6266047	66	68	66	62	55	64
6266048	86	87	86	82	65	81
6266049	66	69	67	62	54	65
Blank	77	78	76	72	66	73
MS	91	90	81	76	78	85
MSD	79	80	79	76	74	77
OPR	73	73	73	70	63	68

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6266032						
6266033						
6266034	65					
6266035						
6266036						
6266037						
6266038						
6266039						
6266040						
6266041						
6266043						
6266044						
6266045						
6266046						
6266047						
6266048						
6266049						
Blank	72					
MS						
MSD						
OPR						

Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11130001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243435
Reported: 05/27/11 at 02:13 PM

Surrogate Quality Control

6266042	69	64	30	35	63	68
Blank	62	63	51	57	63	60
MS	64	70	22	26	71	68
MSD	44	38	26	32	37	43
OPR	47	43	28	32	41	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6266042	47	60	55	67	71	66
Blank	73	51	44	77	68	68
MS	43	64	55	72	75	68
MSD	40	37	32	46	46	41
OPR	43	39	31	50	52	48
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6266042	64	68	65	62	64	72
Blank	68	68	67	63	58	66
MS	67	74	73	69	61	76
MSD	41	44	40	36	37	49
OPR	48	51	49	43	41	51
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1243435 Sample#62666032-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stephen Brutch

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-ER EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	1 SS sleeve			X	X															
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	1 SS sleeve			X	X															
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	1 SS sleeve			X	X															
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	1 SS sleeve			X	X															
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											MS/MSD
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-119-SA8N-SS-0.0-0.5	04.21.11	0900	SOIL	NONE	1-16 oz jars										X	X	X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	1 SS sleeve			X	X															
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/21/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	4/22/11 0900	8695 1442 0247, 8700 5932 3010	

acct# 13013 Gp# 1243435 Sample# 6266032-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-004-SA8N-SB-4.5	04.21.11	1023	SOIL	NONE	4-Encores										X	X											
SL-004-SA8N-SB-4.0-5.0	04.21.11	1025	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-004-SA8N-SB-9.0-10.0	04.21.11	1035	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-4.5	04.21.11	1155	SOIL	NONE	4-Encores										X	X											
SL-005-SA8N-SB-4.0-5.0	04.21.11	1157	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-9.0-10.0	04.21.11	1230	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-4.5	04.21.11	1500	SOIL	NONE	4-Encores										X	X											
SL-006-SA8N-SB-4.0-5.0	04.21.11	1503	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-9.0-10.0	04.21.11	1510	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
TB-042111	04.21.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/21/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	4/22/11 0700	8695 1442 0236, 8700 5932 3010	

Nicole Maljovec A#13013 Grp#1243435 Sample#G2006032-49

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, April 28, 2011 7:04 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: RE: 4/21 Samples: label/COC Discrepancy on depths

Hi Nicole – please use the sample numbers from the bottles and not the COC. Always default to the bottles!

Thanks, Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, April 28, 2011 1:55 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 4/21 Samples: label/COC Discrepancy on depths

Hi again,
We had two labels that didn't match the COCs. Sample SL-005-SA8N-SB-9.0-10.0 and SL-006-SA8N-SB-9.0-10.0 had 8.0-9.0 on the bottle labels. It's documented on 1243435d. We entered the sample IDs from the COC. Please let me know if the depths should be changed to 8.0-9.0.

Thanks!
Nicole

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Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

acct#13013 Cap# 1243435 Sample# 62666032-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
# Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature: Stef J Butch

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Phosphate EPA 6010A	**Cyanide EPA 9012B	**Total Metals EPA 6010B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	Amended COC
SL-111-SA8N-SS-0.0-0.5	04.21.11	1340	SOIL	NONE	1 SS sleeve			X	X															
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-112-SA8N-SS-0.0-0.5	04.21.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-115-SA8N-SS-0.0-0.5	04.21.11	1240	SOIL	NONE	1 SS sleeve			X	X															
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-116-SA8N-SS-0.0-0.5	04.21.11	1020	SOIL	NONE	1 SS sleeve			X	X															
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-117-SA8N-SS-0.0-0.5	04.21.11	0920	SOIL	NONE	1 SS sleeve			X	X															
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA8N-SS-0.0-0.5	04.21.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											MS/MSD
SL-119-SA8N-SS-0.0-0.5MS	04.21.11	0900	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-119-SA8N-SS-0.0-0.5	04.21.11	0900	SOIL	NONE	1-16 oz jars										X	X	X	X	X	X	X	X	X	"
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	"
SL-125-SA8N-SS-0.0-0.5	04.21.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-126-SA8N-SS-0.0-0.5	04.21.11	0940	SOIL	NONE	1 SS sleeve			X	X															
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
DUP06-SA8N-QC-042111	04.21.11	0905	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/21/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	4/22/11 0900	8695 1442 0247, 8700 5932 3010	

acct# 13013 Gp# 1243435 sample# 6260032-49

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected		*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $ *	**TPH-EPH EPA 8015B Mod.	**Nitrites EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																							Amended COC
SAMPLE NUMBER	DATE / TIME / MATRIX / Preservative / Type & No. of Containers																						
SL-004-SA8N-SB-4.5	04.21.11 1023 SOIL NONE 4-Encores										X	X											
SL-004-SA8N-SB-4.0-5.0	04.21.11 1025 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-004-SA8N-SB-9.0-10.0	04.21.11 1035 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-4.5	04.21.11 1155 SOIL NONE 4-Encores										X	X											
SL-005-SA8N-SB-4.0-5.0	04.21.11 1157 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-005-SA8N-SB-~~6.0-10.0~~ 8.0-9.0	04.21.11 1230 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-4.5	04.21.11 1500 SOIL NONE 4-Encores										X	X											
SL-006-SA8N-SB-4.0-5.0	04.21.11 1503 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
SL-006-SA8N-SB-~~6.0-10.0~~ 8.0-9.0	04.21.11 1510 SOIL NONE 4-16 oz. jars	X	X	X	X	X	X	X	X									X			X		
TB-042111	04.21.11 0800 WATER NONE 3-40 mL vials										X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/21/2011 / 1700	Received for Laboratory by: (Signature)																					Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 4/22/11 0700	Airbill No.(s) 8695 1442 0236, 8700 5932 3010																					

The sample IDs above were updated to match the bottle labels per PB.

NLM 4/29/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/23/2011
Group Number: 1243643
SDG: DE135
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8N-SB-4.0-5.0 Soil	6267467
SL-007-SA8N-SB-9.0-10.0 Soil	6267468
SL-010-SA8N-SB-4.0-5.0 Soil	6267469
SL-010-SA8N-SB-9.0-10.0 Soil	6267470
SL-011-SA8N-SB-4.0-5.0 Soil	6267471
SL-011-SA8N-SB-9.0-10.0 Soil	6267472
SL-064-SA5A-SB-3.0-4.0 Soil	6267473
SL-064-SA5A-SB-3.0-4.0MS Soil	6267474
SL-064-SA5A-SB-3.0-4.0MSD Soil	6267475
SL-064-SA5A-SB-3.0-4.0DUP Soil	6267476
SL-166-SA5A-SS-0.0-0.5 Soil	6267477
SL-253-SA5A-SB-4.0-5.0 Soil	6267478
SL-253-SA5A-SB-8.0-9.0 Soil	6267479
DUP16-SA5A-QC-042211 Soil	6267480
TB-042211 Water	6267481

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1	U	6.1	7.2		0.78
06192	Benzene	71-43-2	0.09	U	0.09	3.6		0.78
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.6		0.78
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.6		0.78
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.6		0.78
06192	Bromoform	75-25-2	0.36	U	0.36	3.6		0.78
06192	Bromomethane	74-83-9	0.23	U	0.23	3.6		0.78
06192	2-Butanone	78-93-3	1.1	U	1.1	7.2		0.78
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.6		0.78
06192	sec-Butylbenzene	135-98-8	0.05	U	0.05	3.6		0.78
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.6		0.78
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.6		0.78
06192	Chlorobenzene	108-90-7	0.1	U	0.1	3.6		0.78
06192	Chloroethane	75-00-3	0.12	U	0.12	3.6		0.78
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.6		0.78
06192	Chloroform	67-66-3	0.11	U	0.11	3.6		0.78
06192	Chloromethane	74-87-3	0.30	U	0.30	3.6		0.78
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.6		0.78
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.6		0.78
06192	Chlorotrifluoroethene	79-38-9	0.45	U	0.45	4.5		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.63	U	0.63	3.6		0.78
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.6		0.78
06192	1,2-Dibromoethane	106-93-4	0.15	U	0.15	3.6		0.78
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.6		0.78
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.6		0.78
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.6		0.78
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.6		0.78
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.6		0.78
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.6		0.78
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.6		0.78
06192	1,1-Dichloroethene	75-35-4	0.35	U	0.35	3.6		0.78
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.6		0.78
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.6		0.78
06192	1,2-Dichloropropane	78-87-5	0.15	U	0.15	3.6		0.78
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.6		0.78
06192	2,2-Dichloropropane	594-20-7	0.15	U	0.15	3.6		0.78
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.6		0.78
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.6		0.78
06192	trans-1,3-Dichloropropene	10061-02-6	0.15	U	0.15	3.6		0.78
06192	Ethylbenzene	100-41-4	0.05	U	0.05	3.6		0.78
06192	Freon 113	76-13-1	0.1	U	0.1	3.6		0.78
06192	Freon 133a	75-88-7	0.45	U	0.45	4.5		0.78
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.6		0.78
06192	2-Hexanone	591-78-6	1.4	U	1.4	7.2		0.78
06192	Isopropylbenzene	98-82-8	0.05	U	0.05	3.6		0.78
06192	p-Isopropyltoluene	99-87-6	0.1	U	0.1	3.6		0.78
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.6		0.78
06192	4-Methyl-2-pentanone	108-10-1	0.35	U	0.35	7.2		0.78
06192	Methylene Chloride	75-09-2	0.58	J	0.22	3.6		0.78
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.6		0.78

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.6		0.78
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1	U	0.1	3.6		0.78
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.6		0.78
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.6		0.78
06192	Toluene	108-88-3	0.07	U	0.07	3.6		0.78
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.6		0.78
06192	1,2,4-Trichlorobenzene	120-82-1	0.16	U	0.16	3.6		0.78
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.6		0.78
06192	1,1,2-Trichloroethane	79-00-5	0.24	U	0.24	3.6		0.78
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.6		0.78
06192	Trichlorofluoromethane	75-69-4	0.26	U	0.26	3.6		0.78
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.6		0.78
06192	1,2,4-Trimethylbenzene	95-63-6	0.36	U	0.36	3.6		0.78
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.6		0.78
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.6		0.78
06192	m+p-Xylene	179601-23-1	0.15	U	0.15	3.6		0.78
06192	o-Xylene	95-47-6	0.15	U	0.15	3.6		0.78
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.68	22.6		1
07914	Boron	7440-42-8	14.0		1.00	5.64		1
01650	Calcium	7440-70-2	20,100		6.92	22.6		1
01654	Iron	7439-89-6	28,400		5.32	22.6		1
01656	Lithium	7439-93-2	24.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,210		2.87	11.3		1
06958	Manganese	7439-96-5	362		0.0881	0.564		1
10145	Phosphorus	7723-14-0	309		0.632	11.3		1
01662	Potassium	7440-09-7	2,920		20.3	56.4		1
01667	Sodium	7440-23-5	91.2	J	42.1	113		1
07968	Strontium	7440-24-6	33.6		0.0700	0.564		1
06969	Tin	7440-31-5	3.02	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,280		0.429	1.13		1
10146	Zirconium	7440-67-7	3.10	J	0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0677	U	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.81		0.0903	0.452		2
06126	Barium	7440-39-3	107		0.122	0.452		2

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SL-007-SA8N-SB-4.0-5.0

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13501 SDG#: DE135-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.800	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.210	0.0452	0.113		2
06131	Chromium	7440-47-3	28.1	0.135	0.452		2
06132	Cobalt	7440-48-4	10.4	0.0226	0.113		2
06133	Copper	7440-50-8	14.4	0.0745	0.452		2
06135	Lead	7439-92-1	7.94	0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.385	0.0564	0.113		2
06139	Nickel	7440-02-0	18.4	0.113	0.452		2
06141	Selenium	7782-49-2	0.0767 J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0333 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.302	0.0339	0.113		2
06148	Vanadium	7440-62-2	51.3	0.0248	0.113		2
06149	Zinc	7440-66-6	64.4	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0224 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	429	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
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13501 SDG#: DE135-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-007-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 05:58	Angela D Sneeringer	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 19:22	Jason M Long	19.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:03	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 12:48	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 12:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 19:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111170001A	04/27/2011 20:27	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111170001A	04/27/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-4.0-5.0

LLI Sample # SW 6267467
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:33

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13501 SDG#: DE135-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 13:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1

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Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,900		5.75	22.9		1
07914	Boron	7440-42-8	13.9		1.02	5.72		1
01650	Calcium	7440-70-2	14,100		7.01	22.9		1
01654	Iron	7439-89-6	29,800		5.38	22.9		1
01656	Lithium	7439-93-2	25.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,720		2.90	11.4		1
06958	Manganese	7439-96-5	505		0.0892	0.572		1
10145	Phosphorus	7723-14-0	296		0.640	11.4		1
01662	Potassium	7440-09-7	2,760		20.6	57.2		1
01667	Sodium	7440-23-5	135		42.6	114		1
07968	Strontium	7440-24-6	31.1		0.0709	0.572		1
06969	Tin	7440-31-5	3.15	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,330		0.434	1.14		1
10146	Zirconium	7440-67-7	3.35	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0915	0.457		2
06126	Barium	7440-39-3	93.2		0.123	0.457		2
06127	Beryllium	7440-41-7	0.821		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.259		0.0457	0.114		2
06131	Chromium	7440-47-3	27.4		0.137	0.457		2
06132	Cobalt	7440-48-4	10.4		0.0229	0.114		2
06133	Copper	7440-50-8	14.4		0.0755	0.457		2
06135	Lead	7439-92-1	7.84		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.412		0.0572	0.114		2
06139	Nickel	7440-02-0	21.1		0.114	0.457		2
06141	Selenium	7782-49-2	0.0562	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0318	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.317		0.0343	0.114		2
06148	Vanadium	7440-62-2	49.4		0.0252	0.114		2
06149	Zinc	7440-66-6	61.7		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0327	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	431		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.19		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011	13:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011	13:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011	09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011	09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011	20:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011	09:30	Kelli M Barto	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011	18:10	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011	10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011	02:03	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011	02:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011	02:03	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SB-9.0-10.0

LLI Sample # SW 6267468
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 09:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13502 SDG#: DE135-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 13:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	0.52	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	88.8		19.3	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		5.72	22.7		1
07914	Boron	7440-42-8	13.1		1.01	5.68		1
01650	Calcium	7440-70-2	15,400		6.97	22.7		1
01654	Iron	7439-89-6	30,200		5.35	22.7		1
01656	Lithium	7439-93-2	23.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,490		2.89	11.4		1

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	339		0.0887	0.568		1
10145	Phosphorus	7723-14-0	295		0.637	11.4		1
01662	Potassium	7440-09-7	2,860		20.5	56.8		1
01667	Sodium	7440-23-5	230		42.4	114		1
07968	Strontium	7440-24-6	34.5		0.0705	0.568		1
06969	Tin	7440-31-5	3.13	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,230		0.432	1.14		1
10146	Zirconium	7440-67-7	2.72	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0918	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.35		0.0937	0.468		2
06126	Barium	7440-39-3	113		0.126	0.468		2
06127	Beryllium	7440-41-7	0.879		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.196		0.0468	0.117		2
06131	Chromium	7440-47-3	31.9		0.141	0.468		2
06132	Cobalt	7440-48-4	11.9		0.0234	0.117		2
06133	Copper	7440-50-8	15.7		0.0773	0.468		2
06135	Lead	7439-92-1	9.40		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.344		0.0585	0.117		2
06139	Nickel	7440-02-0	20.7		0.117	0.468		2
06141	Selenium	7782-49-2	0.0661	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0304	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.338		0.0351	0.117		2
06148	Vanadium	7440-62-2	57.0		0.0258	0.117		2
06149	Zinc	7440-66-6	65.6		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0174	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	428	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.13	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011	06:21	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011	19:42	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011	11:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011	11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011	11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011	11:07	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011	15:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011	13:37	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011	13:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011	08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011	09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011	09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011	11:14	Carrie E Miller	22.28

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:07	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 11:21	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 20:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 09:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 18:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 00:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2

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Sample Description: SL-010-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-4.0-5.0

LLI Sample # SW 6267469
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13503 SDG#: DE135-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 01:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 01:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:03	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:52	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.83
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.83
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.83
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.83
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.83
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.83
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.83
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.83
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.83
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.83
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.83
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.83
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.83
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.83
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.83
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.83
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.83
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.83
06192	Methylene Chloride	75-09-2	0.43	J	0.24	3.9		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.83

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.83
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.83
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.83
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.83
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.83
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.83
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	58.6		19.7	39.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

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13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	1.8		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,100		5.89	23.4		1
07914	Boron	7440-42-8	13.5		1.04	5.86		1
01650	Calcium	7440-70-2	13,900		7.18	23.4		1
01654	Iron	7439-89-6	29,800		5.52	23.4		1
01656	Lithium	7439-93-2	20.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,360		2.98	11.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	424		0.0914	0.586		1
10145	Phosphorus	7723-14-0	405		0.656	11.7		1
01662	Potassium	7440-09-7	3,080		21.1	58.6		1
01667	Sodium	7440-23-5	169		43.7	117		1
07968	Strontium	7440-24-6	32.7		0.0726	0.586		1
06969	Tin	7440-31-5	3.31	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,390		0.445	1.17		1
10146	Zirconium	7440-67-7	3.23	J	0.984	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0809	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.63		0.0928	0.464		2
06126	Barium	7440-39-3	146		0.125	0.464		2
06127	Beryllium	7440-41-7	0.940		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.212		0.0464	0.116		2
06131	Chromium	7440-47-3	29.8		0.139	0.464		2
06132	Cobalt	7440-48-4	10.9		0.0232	0.116		2
06133	Copper	7440-50-8	17.4		0.0766	0.464		2
06135	Lead	7439-92-1	8.42		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.346		0.0580	0.116		2
06139	Nickel	7440-02-0	23.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.0669	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0943	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.341		0.0348	0.116		2
06148	Vanadium	7440-62-2	54.3		0.0255	0.116		2
06149	Zinc	7440-66-6	76.2		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0225	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.5		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Analysis Report

Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	434	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 06:43	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:02	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:10	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 15:47	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:02	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 14:14	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 11:50	Carrie E Miller	20.9

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:09	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 12:03	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:44	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 20:51	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 09:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 18:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 18:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 02:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2

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Sample Description: SL-010-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SB-9.0-10.0

LLI Sample # SW 6267470
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:20

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13504 SDG#: DE135-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 01:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:15	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.1		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.86
06192	Methylene Chloride	75-09-2	0.51	J	0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	62.9		19.7	39.4		1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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13505 SDG#: DE135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		5.84	23.2		1
07914	Boron	7440-42-8	13.6		1.03	5.80		1
01650	Calcium	7440-70-2	13,400		7.11	23.2		1
01654	Iron	7439-89-6	31,500		27.3	116		5
01656	Lithium	7439-93-2	25.9		0.26	2.3		1
01657	Magnesium	7439-95-4	6,200		2.95	11.6		1
06958	Manganese	7439-96-5	423		0.0905	0.580		1
10145	Phosphorus	7723-14-0	218		0.650	11.6		1
01662	Potassium	7440-09-7	3,190		20.9	58.0		1
01667	Sodium	7440-23-5	277		43.3	116		1
07968	Strontium	7440-24-6	32.5		0.0719	0.580		1
06969	Tin	7440-31-5	3.26	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,390		0.441	1.16		1
10146	Zirconium	7440-67-7	2.78	J	0.975	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0689	U	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.90		0.0919	0.460		2
06126	Barium	7440-39-3	169		0.124	0.460		2
06127	Beryllium	7440-41-7	1.07		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.224		0.0460	0.115		2
06131	Chromium	7440-47-3	32.8		0.138	0.460		2
06132	Cobalt	7440-48-4	14.7		0.0230	0.115		2
06133	Copper	7440-50-8	14.5		0.0758	0.460		2
06135	Lead	7439-92-1	11.1		0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.550		0.0574	0.115		2
06139	Nickel	7440-02-0	25.7		0.115	0.460		2
06141	Selenium	7782-49-2	0.0853	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0636	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.382		0.0345	0.115		2
06148	Vanadium	7440-62-2	62.0		0.0253	0.115		2
06149	Zinc	7440-66-6	74.6		0.643	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0140	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.1		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	442		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:06	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:22	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 16:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:27	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 14:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 12:27	Carrie E Miller	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:13	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 12:46	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 05:53	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:09	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 10:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 19:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 19:03	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 02:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 09:40	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-4.0-5.0

LLI Sample # SW 6267471
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:52

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13505 SDG#: DE135-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 02:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:28	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.89
06192	Methylene Chloride	75-09-2	0.46	J	0.25	4.2		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	98.2		19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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LLI Sample # SW 6267472
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13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.53	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,300		5.90	23.4		1
07914	Boron	7440-42-8	12.4		1.04	5.86		1
01650	Calcium	7440-70-2	14,300		7.19	23.4		1
01654	Iron	7439-89-6	29,600		5.52	23.4		1
01656	Lithium	7439-93-2	21.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,000		2.98	11.7		1

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SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	415		0.0914	0.586		1
10145	Phosphorus	7723-14-0	207		0.657	11.7		1
01662	Potassium	7440-09-7	2,300		21.1	58.6		1
01667	Sodium	7440-23-5	262		43.7	117		1
07968	Strontium	7440-24-6	31.4		0.0727	0.586		1
06969	Tin	7440-31-5	3.30	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,280		0.445	1.17		1
10146	Zirconium	7440-67-7	2.90	J	0.985	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0703	U	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.06		0.0938	0.469		2
06126	Barium	7440-39-3	125		0.127	0.469		2
06127	Beryllium	7440-41-7	0.964		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.152		0.0469	0.117		2
06131	Chromium	7440-47-3	32.3		0.141	0.469		2
06132	Cobalt	7440-48-4	13.0		0.0234	0.117		2
06133	Copper	7440-50-8	15.9		0.0774	0.469		2
06135	Lead	7439-92-1	9.97		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.352		0.0586	0.117		2
06139	Nickel	7440-02-0	24.9		0.117	0.469		2
06141	Selenium	7782-49-2	0.0713	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0551	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.307		0.0352	0.117		2
06148	Vanadium	7440-62-2	56.8		0.0258	0.117		2
06149	Zinc	7440-66-6	69.2		0.657	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0216	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

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13506 SDG#: DE135-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:28	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 20:42	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11120SLB026	05/16/2011 16:21	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 14:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 15:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11120SLB026	05/01/2011 08:30	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11112A34B	04/25/2011 13:03	Carrie E Miller	21.04

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13506 SDG#: DE135-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111180034A	05/02/2011 13:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111160002A	04/28/2011 06:03	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:28	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111160002A	04/26/2011 11:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111180034A	04/29/2011 12:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 10:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111180032A	04/28/2011 19:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111190001A	04/29/2011 19:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111220022A	05/05/2011 03:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111220022A	05/03/2011 09:30	Kelli M Barto	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111180032A	04/28/2011 15:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111190001A	04/29/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SB-9.0-10.0

LLI Sample # SW 6267472
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 12:12

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13506 SDG#: DE135-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 02:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11128621202A	05/10/2011 02:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 02:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:40	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11122102201B	05/03/2011 09:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11122102201B	05/02/2011 15:30	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11125162401A	05/05/2011 19:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	0.45	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.42
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.58	22.2		1
07914	Boron	7440-42-8	8.23		0.988	5.55		1
01650	Calcium	7440-70-2	2,920		6.61	21.6		1
01654	Iron	7439-89-6	24,900		5.23	22.2		1
01656	Lithium	7439-93-2	32.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,460		2.82	11.1		1
06958	Manganese	7439-96-5	292		0.0866	0.555		1
10145	Phosphorus	7723-14-0	309		0.622	11.1		1
01662	Potassium	7440-09-7	2,660		20.0	55.5		1
01667	Sodium	7440-23-5	93.2	J	41.4	111		1
07968	Strontium	7440-24-6	18.3		0.0688	0.555		1
06969	Tin	7440-31-5	3.50	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,170		0.422	1.11		1
10146	Zirconium	7440-67-7	0.932	U	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0659	U	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0879	0.440		2
06126	Barium	7440-39-3	102		0.119	0.440		2
06127	Beryllium	7440-41-7	0.865		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0937	J	0.0440	0.110		2
06131	Chromium	7440-47-3	23.6		0.132	0.440		2
06132	Cobalt	7440-48-4	8.10		0.0220	0.110		2
06133	Copper	7440-50-8	11.4		0.0725	0.440		2
06135	Lead	7439-92-1	7.52		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.532		0.0550	0.110		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	18.5	0.110	0.440		2
06141	Selenium	7782-49-2	0.134 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0404 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.316	0.0330	0.110		2
06148	Vanadium	7440-62-2	41.7	0.0242	0.110		2
06149	Zinc	7440-66-6	63.8	0.615	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0261 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	392	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 02:59	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:02	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 11:35	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 11:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 21:46	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:35	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267473
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 00:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/09/2011 23:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 14:53	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	130	6.4	7.7		0.86
06192	Benzene	71-43-2	23	0.1	3.8		0.86
06192	Bromobenzene	108-86-1	22	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	24	0.32	3.8		0.86
06192	Bromodichloromethane	75-27-4	20	0.08	3.8		0.86
06192	Bromoform	75-25-2	17	0.38	3.8		0.86
06192	Bromomethane	74-83-9	21	0.24	3.8		0.86
06192	2-Butanone	78-93-3	120	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	25	0.12	3.8		0.86
06192	sec-Butylbenzene	135-98-8	25	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	22	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	22	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	21	0.11	3.8		0.86
06192	Chloroethane	75-00-3	22	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	9.8	0.29	3.8		0.86
06192	Chloroform	67-66-3	22	0.12	3.8		0.86
06192	Chloromethane	74-87-3	21	0.32	3.8		0.86
06192	2-Chlorotoluene	95-49-8	23	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	23	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	15	0.67	3.8		0.86
06192	Dibromochloromethane	124-48-1	19	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	19	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	19	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	21	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	18	0.12	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	22	0.1	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	24	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	22	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	22	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	20	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	22	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	22	0.06	3.8		0.86
06192	Freon 113	76-13-1	26	0.11	3.8		0.86
06192	Freon 133a	75-88-7	22	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	20	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	79	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	22	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	24	0.11	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	80	0.37	7.7		0.86
06192	Methylene Chloride	75-09-2	23	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	26	0.07	3.8		0.86

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.1	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.11	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	22		0.19	3.8		0.86
06192	Toluene	108-88-3	22		0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	20		0.26	3.8		0.86
06192	Trichloroethene	79-01-6	22		0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	22		0.28	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	19		0.32	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.1	3.8		0.86
06192	Vinyl Chloride	75-01-4	21		0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	44		0.16	3.8		0.86
06192	o-Xylene	95-47-6	21		0.16	3.8		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130		4.9	15		21.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,300		190	560		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	1,300	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,500		190	560		1
04688	Benzyl alcohol	100-51-6	1,500		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	1,500		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		37	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,600		19	190		1

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,200	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	370		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,500	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	190	560		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	1,700	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,700	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,600	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,600	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,700	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.74	1.9		1
10138	Acenaphthylene	208-96-8	34		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	40		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	47		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	39		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	36		0.74	1.9		1
10138	Diethylphthalate	84-66-2	33		6.7	20		1
10138	Dimethylphthalate	131-11-3	35		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.7	20		1
10138	Fluoranthene	206-44-0	40		0.74	1.9		1
10138	Fluorene	86-73-7	35		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.74	1.9		1
10138	Naphthalene	91-20-3	32		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	40		6.7	20		1
10138	Phenanthrene	85-01-8	34		0.74	1.9		1
10138	Pyrene	129-00-0	32		0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	18		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	18		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.53	22.0		1
07914	Boron	7440-42-8	217		0.978	5.50		1

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,170	6.74	22.0		1
01654	Iron	7439-89-6	27,400	5.18	22.0		1
01656	Lithium	7439-93-2	146	0.24	2.2		1
01657	Magnesium	7439-95-4	6,250	2.79	11.0		1
06958	Manganese	7439-96-5	328	0.0857	0.550		1
10145	Phosphorus	7723-14-0	418	0.615	11.0		1
01662	Potassium	7440-09-7	4,010	19.8	55.0		1
01667	Sodium	7440-23-5	1,160	41.0	110		1
07968	Strontium	7440-24-6	129	0.0681	0.550		1
06969	Tin	7440-31-5	374	1.10	11.0		1
06970	Titanium	7440-32-6	1,430	0.418	1.10		1
10146	Zirconium	7440-67-7	108	0.923	5.50		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.361	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.96	0.0888	0.444		2
06126	Barium	7440-39-3	102	0.120	0.444		2
06127	Beryllium	7440-41-7	1.58	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.25	0.0444	0.111		2
06131	Chromium	7440-47-3	30.8	0.133	0.444		2
06132	Cobalt	7440-48-4	64.6	0.0222	0.111		2
06133	Copper	7440-50-8	21.0	0.0733	0.444		2
06135	Lead	7439-92-1	9.79	0.0115	0.222		2
06138	Molybdenum	7439-98-7	10.7	0.0555	0.111		2
06139	Nickel	7440-02-0	27.6	0.111	0.444		2
06141	Selenium	7782-49-2	2.36	0.0444	0.444		2
06142	Silver	7440-22-4	11.5	0.0133	0.111		2
06145	Thallium	7440-28-0	0.689	0.0333	0.111		2
06148	Vanadium	7440-62-2	48.2	0.0244	0.111		2
06149	Zinc	7440-66-6	68.2	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.164	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	573	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.7	1.1	5.6		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 03:21	Angela D Sneeringer	0.86
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 04:06	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:21	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 11:59	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 11:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1

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Sample Description: SL-064-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267474
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 01:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 00:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 15:24	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.8	8.2		0.91
06192	Benzene	71-43-2	24	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	26	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	21	0.08	4.1		0.91
06192	Bromoform	75-25-2	19	0.41	4.1		0.91
06192	Bromomethane	74-83-9	22	0.26	4.1		0.91
06192	2-Butanone	78-93-3	140	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	24	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	25	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	23	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	22	0.11	4.1		0.91
06192	Chloroethane	75-00-3	22	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	10	0.31	4.1		0.91
06192	Chloroform	67-66-3	23	0.12	4.1		0.91
06192	Chloromethane	74-87-3	22	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	23	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	23	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	16	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	20	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	21	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	22	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	19	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	23	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	20	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	23	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	24	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	23	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	21	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	23	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	23	0.06	4.1		0.91
06192	Freon 113	76-13-1	27	0.11	4.1		0.91
06192	Freon 133a	75-88-7	20	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	20	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	92	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	23	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	24	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	95	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	24	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	25	0.07	4.1		0.91

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Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21		0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	21		0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	22		0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	23		0.20	4.1		0.91
06192	Toluene	108-88-3	23		0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	20		0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.1		0.91
06192	Trichloroethene	79-01-6	23		0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	23		0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	21		0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	22		0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	45		0.17	4.1		0.91
06192	o-Xylene	95-47-6	22		0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		4.6	14		20.39
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,700		19	190		1
04688	Aniline	62-53-3	1,300		190	560		1
04688	Anthracene	120-12-7	1,700		19	190		1
04688	Benzidine	92-87-5	1,400	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	560		1
04688	Benzyl alcohol	100-51-6	1,500		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190		1
04688	4-Chloroaniline	106-47-8	1,500		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,700		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,700		19	190		1

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Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,300	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	370		1
04688	Fluoranthene	206-44-0	1,700	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,600	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900	190	560		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	37	190		1
04688	4-Methylphenol	106-44-5	1,800	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	37	190		1
04688	4-Nitroaniline	100-01-6	1,500	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,200	190	560		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1
04688	Pyrene	129-00-0	1,800	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 20 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.74	1.9		1
10138	Acenaphthylene	208-96-8	33		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	35		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	46		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	33		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.7	20		1
10138	Chrysene	218-01-9	35		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.74	1.9		1
10138	Diethylphthalate	84-66-2	33		6.7	20		1
10138	Dimethylphthalate	131-11-3	35		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38		6.7	20		1
10138	Fluoranthene	206-44-0	40		0.74	1.9		1
10138	Fluorene	86-73-7	35		0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	36		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	32		0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	29		0.74	1.9		1
10138	Naphthalene	91-20-3	33		0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	39		6.7	20		1
10138	Phenanthrene	85-01-8	35		0.74	1.9		1
10138	Pyrene	129-00-0	31		0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	17		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	19		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.58	22.2		1
07914	Boron	7440-42-8	218		0.988	5.55		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,300	6.74	22.0		1
01654	Iron	7439-89-6	26,200	5.23	22.2		1
01656	Lithium	7439-93-2	142	0.24	2.2		1
01657	Magnesium	7439-95-4	5,950	2.82	11.1		1
06958	Manganese	7439-96-5	344	0.0866	0.555		1
10145	Phosphorus	7723-14-0	430	0.622	11.1		1
01662	Potassium	7440-09-7	4,180	20.0	55.5		1
01667	Sodium	7440-23-5	1,150	41.4	111		1
07968	Strontium	7440-24-6	128	0.0688	0.555		1
06969	Tin	7440-31-5	374	1.11	11.1		1
06970	Titanium	7440-32-6	1,430	0.422	1.11		1
10146	Zirconium	7440-67-7	107	0.932	5.55		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.480	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.5	0.0888	0.444		2
06126	Barium	7440-39-3	137	0.120	0.444		2
06127	Beryllium	7440-41-7	1.97	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.59	0.0444	0.111		2
06131	Chromium	7440-47-3	37.1	0.133	0.444		2
06132	Cobalt	7440-48-4	81.6	0.0222	0.111		2
06133	Copper	7440-50-8	26.6	0.0733	0.444		2
06135	Lead	7439-92-1	12.4	0.0115	0.222		2
06138	Molybdenum	7439-98-7	14.2	0.0555	0.111		2
06139	Nickel	7440-02-0	35.4	0.111	0.444		2
06141	Selenium	7782-49-2	2.73	0.0444	0.444		2
06142	Silver	7440-22-4	14.2	0.0133	0.111		2
06145	Thallium	7440-28-0	0.846	0.0333	0.111		2
06148	Vanadium	7440-62-2	58.6	0.0244	0.111		2
06149	Zinc	7440-66-6	87.0	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.169	0.0032	0.110		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 03:44	Angela D Sneeringer	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 04:29	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 21:42	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 12:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 12:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:47	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267475
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.53	22.0		1
07914	Boron	7440-42-8	8.19		0.978	5.50		1
01650	Calcium	7440-70-2	2,700		6.74	22.0		1
01654	Iron	7439-89-6	25,400		5.18	22.0		1
01656	Lithium	7439-93-2	32.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,500		2.79	11.0		1
06958	Manganese	7439-96-5	301		0.0857	0.550		1
10145	Phosphorus	7723-14-0	327		0.615	11.0		1
01662	Potassium	7440-09-7	2,730		19.8	55.0		1
01667	Sodium	7440-23-5	94.2	J	41.0	110		1
07968	Strontium	7440-24-6	18.3		0.0681	0.550		1
06969	Tin	7440-31-5	3.32	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,160		0.418	1.10		1
10146	Zirconium	7440-67-7	1.30	J	0.923	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0673	U	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.78		0.0897	0.448		2
06126	Barium	7440-39-3	97.7		0.121	0.448		2
06127	Beryllium	7440-41-7	0.814		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0816	J	0.0448	0.112		2
06131	Chromium	7440-47-3	22.9		0.135	0.448		2
06132	Cobalt	7440-48-4	7.84		0.0224	0.112		2
06133	Copper	7440-50-8	11.0		0.0740	0.448		2
06135	Lead	7439-92-1	7.04		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.550		0.0561	0.112		2
06139	Nickel	7440-02-0	18.2		0.112	0.448		2
06141	Selenium	7782-49-2	0.107	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0399	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.276		0.0336	0.112		2
06148	Vanadium	7440-62-2	40.7		0.0247	0.112		2
06149	Zinc	7440-66-6	62.4		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0062	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.22	1.1		1

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	2	111255708007	05/06/2011 13:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 01:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 10:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5A-SB-3.0-4.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5A-SB-3.0-4.0

LLI Sample # SW 6267476
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:10

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13507 SDG#: DE135-07DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 10:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 10:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 10:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 00:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/09/2011 23:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:01	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182102B	04/26/2011 11:00	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039402B	04/26/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		5.07	20.2		1
07914	Boron	7440-42-8	6.33		0.897	5.04		1
01650	Calcium	7440-70-2	2,920		6.18	20.2		1

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Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,100		4.75	20.2		1
01656	Lithium	7439-93-2	18.6		0.22	2.0		1
01657	Magnesium	7439-95-4	4,280		2.56	10.1		1
06958	Manganese	7439-96-5	256		0.0786	0.504		1
10145	Phosphorus	7723-14-0	329		0.564	10.1		1
01662	Potassium	7440-09-7	2,010		18.1	50.4		1
01667	Sodium	7440-23-5	62.2	J	37.6	101		1
07968	Strontium	7440-24-6	11.6		0.0625	0.504		1
06969	Tin	7440-31-5	2.89	J	1.01	10.1		1
06970	Titanium	7440-32-6	950		0.383	1.01		1
10146	Zirconium	7440-67-7	0.846	U	0.846	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0667	J	0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0806	0.403		2
06126	Barium	7440-39-3	71.3		0.109	0.403		2
06127	Beryllium	7440-41-7	0.696		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.167		0.0403	0.101		2
06131	Chromium	7440-47-3	14.0		0.121	0.403		2
06132	Cobalt	7440-48-4	7.80		0.0202	0.101		2
06133	Copper	7440-50-8	6.54		0.0665	0.403		2
06135	Lead	7439-92-1	5.86		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.568		0.0504	0.101		2
06139	Nickel	7440-02-0	10.4		0.101	0.403		2
06141	Selenium	7782-49-2	0.0912	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.191		0.0121	0.101		2
06145	Thallium	7440-28-0	0.296		0.0302	0.101		2
06148	Vanadium	7440-62-2	29.5		0.0222	0.101		2
06149	Zinc	7440-66-6	67.6		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0823	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	409		10.0	10.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 15:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 15:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 22:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 09:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5A-SS-0.0-0.5

LLI Sample # SW 6267477
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 13:45

Submitted: 04/23/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13508 SDG#: DE135-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 16:07	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.92
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.92
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.92
06192	Methylene Chloride	75-09-2	0.41	J	0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.92

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.78
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.48	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	1.3	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	1.0	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.80	J	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.79	23.0		1
07914	Boron	7440-42-8	9.59		1.03	5.76		1
01650	Calcium	7440-70-2	2,340		6.92	22.6		1
01654	Iron	7439-89-6	25,200		5.43	23.0		1
01656	Lithium	7439-93-2	26.8		0.25	2.3		1
01657	Magnesium	7439-95-4	4,870		2.93	11.5		1
06958	Manganese	7439-96-5	730		0.0899	0.576		1
10145	Phosphorus	7723-14-0	211		0.645	11.5		1
01662	Potassium	7440-09-7	2,090		20.7	57.6		1
01667	Sodium	7440-23-5	197		43.0	115		1
07968	Strontium	7440-24-6	24.9		0.0714	0.576		1
06969	Tin	7440-31-5	3.19	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,230		0.438	1.15		1
10146	Zirconium	7440-67-7	0.968	U	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0684	U	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.07		0.0913	0.456		2
06126	Barium	7440-39-3	139		0.123	0.456		2
06127	Beryllium	7440-41-7	1.04		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0854	J	0.0456	0.114		2
06131	Chromium	7440-47-3	24.8		0.137	0.456		2
06132	Cobalt	7440-48-4	8.59		0.0228	0.114		2
06133	Copper	7440-50-8	10.3		0.0753	0.456		2
06135	Lead	7439-92-1	7.08		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.783		0.0570	0.114		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	20.5	0.114	0.456		2
06141	Selenium	7782-49-2	0.0748 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0646 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.375	0.0342	0.114		2
06148	Vanadium	7440-62-2	49.5	0.0251	0.114		2
06149	Zinc	7440-66-6	60.8	0.639	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124 J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	438	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-253-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 07:51	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 22:22	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:25	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 15:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 16:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 23:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 13:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-253-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-4.0-5.0

LLI Sample # SW 6267478
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 15:30

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13509 SDG#: DE135-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		5.52	21.9		1
07914	Boron	7440-42-8	7.51		0.976	5.48		1
01650	Calcium	7440-70-2	2,710		6.72	21.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,300		5.17	21.9		1
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,370		2.79	11.0		1
06958	Manganese	7439-96-5	208		0.0855	0.548		1
10145	Phosphorus	7723-14-0	208		0.614	11.0		1
01662	Potassium	7440-09-7	2,080		19.7	54.8		1
01667	Sodium	7440-23-5	166		40.9	110		1
07968	Strontium	7440-24-6	21.8		0.0680	0.548		1
06969	Tin	7440-31-5	3.29	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,200		0.417	1.10		1
10146	Zirconium	7440-67-7	0.921	U	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0664	U	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.95		0.0886	0.443		2
06126	Barium	7440-39-3	105		0.120	0.443		2
06127	Beryllium	7440-41-7	0.775		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.101	J	0.0443	0.111		2
06131	Chromium	7440-47-3	26.4		0.133	0.443		2
06132	Cobalt	7440-48-4	8.45		0.0221	0.111		2
06133	Copper	7440-50-8	11.0		0.0731	0.443		2
06135	Lead	7439-92-1	6.76		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.480		0.0554	0.111		2
06139	Nickel	7440-02-0	15.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.0882	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0423	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.297		0.0332	0.111		2
06148	Vanadium	7440-62-2	47.6		0.0244	0.111		2
06149	Zinc	7440-66-6	60.6		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	458		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 16:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 16:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111200018A	05/05/2011 23:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111200018A	05/02/2011 09:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 13:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-253-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-253-SA5A-SB-8.0-9.0

LLI Sample # SW 6267479
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 16:05

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13510 SDG#: DE135-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202A	05/10/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202A	05/10/2011 03:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:38	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202A	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202A	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	0.67	J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	13		19.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	7.0	J	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.97	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,700		5.57	22.1		1
07914	Boron	7440-42-8	7.87		0.986	5.54		1
01650	Calcium	7440-70-2	2,990		6.79	22.1		1
01654	Iron	7439-89-6	26,600		5.22	22.1		1
01656	Lithium	7439-93-2	36.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,980		2.81	11.1		1
06958	Manganese	7439-96-5	296		0.0864	0.554		1
10145	Phosphorus	7723-14-0	297		0.620	11.1		1
01662	Potassium	7440-09-7	2,490		19.9	55.4		1
01667	Sodium	7440-23-5	102	J	41.3	111		1
07968	Strontium	7440-24-6	19.6		0.0687	0.554		1
06969	Tin	7440-31-5	3.45	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.421	1.11		1
10146	Zirconium	7440-67-7	0.930	U	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0664	U	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.02		0.0886	0.443		2
06126	Barium	7440-39-3	113		0.120	0.443		2
06127	Beryllium	7440-41-7	0.952		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.112		0.0443	0.111		2
06131	Chromium	7440-47-3	25.9		0.133	0.443		2
06132	Cobalt	7440-48-4	8.70		0.0221	0.111		2
06133	Copper	7440-50-8	14.5		0.0731	0.443		2
06135	Lead	7439-92-1	8.33		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.575		0.0554	0.111		2

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Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	20.2	0.111	0.443		2
06141	Selenium		7782-49-2	0.170 J	0.0443	0.443		2
06142	Silver		7440-22-4	0.0405 J	0.0133	0.111		2
06145	Thallium		7440-28-0	0.353	0.0332	0.111		2
06148	Vanadium		7440-62-2	46.5	0.0244	0.111		2
06149	Zinc		7440-66-6	69.4	0.620	3.32		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0093 J	0.0032	0.110		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.0	0.89	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1 U	10.1	33.6		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.29 J	0.22	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	454	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.08	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

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14420 Albemarle Point Place
Suite 210
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13511 SDG#: DE135-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 08:13	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111152BA	04/25/2011 22:42	Jason M Long	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111324219	04/23/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111324219	04/23/2011 11:28	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11120SLD026	05/03/2011 16:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLE026	05/04/2011 17:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLE026	05/02/2011 09:30	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11120SLD026	05/02/2011 09:30	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 04:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111255708007	05/06/2011 14:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:27	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP16-SA5A-QC-042211 Soil
SSFL Area IV Collocated Soil Sampling
DUP16-SA5A-QC-042211

LLI Sample # SW 6267480
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 11:15

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13511 SDG#: DE135-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111255708007	05/05/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11128621202B	05/10/2011 04:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127621202B	05/10/2011 04:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 16:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11128621202B	05/08/2011 11:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127621202B	05/07/2011 14:20	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11116182103A	04/26/2011 11:30	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11116039404A	04/26/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401A	05/03/2011 20:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-042211 Water
SSFL Area IV Collocated Soil Sampling
TB-042211

LLI Sample # WW 6267481
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 08:00

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13512 SDG#: DE135-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-042211 Water
SSFL Area IV Collocated Soil Sampling
TB-042211

LLI Sample # WW 6267481
LLI Group # 1243643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/22/2011 08:00

Submitted: 04/23/2011 09:00
Reported: 05/20/2011 11:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13512 SDG#: DE135-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111171AA	04/27/2011	13:09	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111151AA	04/25/2011	11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111151AA	04/25/2011	11:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111171AA	04/27/2011	13:09	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11117B20A	04/28/2011	00:12	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11117B20A	04/28/2011	00:12	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111171AA	Sample number(s): 6267467,6267469-6267475,6267478,6267480									
Acetone	6.7	U	6.7	8.0	ug/kg	97		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	119		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	86		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	95		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	86		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	94		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	52		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	95		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	101		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	84		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	86		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	85		61-134		
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111151AA	Sample number(s): 6267481									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	118	117	80-123	1	30
Batch number: E111152BA	Sample number(s): 6267467,6267469-6267475,6267478,6267480									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	119	70-130	12	30
Batch number: Y111171AA	Sample number(s): 6267481									
Acetone	6	U	6.	20	ug/l	100	100	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	90	92	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromoform	1	U	1.	5	ug/l	94	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	121*	125*	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	122	117	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	115	112	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	95	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	114	109	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	128	139*	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	92	95	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	86	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	104	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	107	104	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	123*	122*	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	0	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	131*	126	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	107	105	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	97	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	97	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	120	118	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	104	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	101	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	132*	132*	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	94	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	99	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	102	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	99	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	94	93	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	88	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	94	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	87	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	106	103	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	88	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	105	101	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	123	119	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	100	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	101	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	124	127*	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11120SLB026	Sample number(s): 6267469-6267472									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11120SLD026	Sample number(s): 6267467-6267475,6267477-6267480									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	94		75-122		
Aniline	170 U		170.	500	ug/kg	76		34-94		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	84		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170		170.	500	ug/kg	87		68-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	82		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	68		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	82		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	89		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	72		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	95		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	20	J	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	82		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	83		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	83		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	104		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	72		51-117		
Phenanthrene	17	U	17.	170	ug/kg	92		77-113		
Phenol	17	U	17.	170	ug/kg	87		58-112		
Pyrene	17	U	17.	170	ug/kg	92		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	92		78-111		
Batch number: 11120SLE026	Sample number(s): 6267467-6267475,6267477-6267480									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	85		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	88		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	89		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	93		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	96		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	85		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	105		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	82		56-121		
Batch number: 11112A34B	Sample number(s): 6267469-6267472									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 11117B20A	Sample number(s): 6267481									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111180034A	Sample number(s): 6267469-6267472									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	110	109	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	110	108	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	115		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	112		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100 U		100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	118		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	95		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	111		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	115		73-127		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
Batch number: 111160002A	Sample number(s): 6267469-6267472									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	105		80-126		
Batch number: 111200018A	Sample number(s): 6267467-6267475,6267477-6267479									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	88	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	110		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111230023A	Sample number(s): 6267480									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111170029A	Sample number(s): 6267469-6267472									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 111170001A	Sample number(s): 6267467									
Diethylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Batch number: 111180032A	Sample number(s): 6267469-6267472									
Ethanol	100	U	100.	500	ug/kg	97		71-129		
Isopropanol	100	U	100.	500	ug/kg	98		75-125		

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Reported: 05/20/11 at 11:16 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 111190001A	Sample number(s): 6267468-6267472									
Diethylene glycol	5.0	U	5.0	13	mg/kg	113		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	110		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	104		75-125		
Batch number: 111220022A	Sample number(s): 6267469-6267472									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
Batch number: 111191026001A	Sample number(s): 6267467-6267480									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6267467-6267480									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6267467-6267480									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6267467-6267480									
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6267467-6267480									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6267467-6267480									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 111255708007	Sample number(s): 6267473-6267476,6267478-6267480									
Calcium	6.13	U	6.13	20.0	mg/kg	95		88-110		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11122102201B	Sample number(s): 6267469-6267472									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11127621202A	Sample number(s): 6267467-6267474,6267476-6267479									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11127621202B	Sample number(s): 6267480									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	98		85-115		
Batch number: 11128621202A	Sample number(s): 6267467-6267474,6267476-6267479									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11128621202B	Sample number(s): 6267480									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11132243201A	Sample number(s): 6267467-6267474,6267476-6267480									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	86		80-120		
Batch number: 11116039402B	Sample number(s): 6267467-6267473,6267476									
18a pH by 9045C						100		95-105		
Batch number: 11116039404A	Sample number(s): 6267477-6267480									
18a pH by 9045C						100		95-105		
Batch number: 11116182102B	Sample number(s): 6267467-6267473,6267476									
32a OR Potential						99		98-102		
Batch number: 11116182103A	Sample number(s): 6267477-6267480									
32a OR Potential						99		98-102		
Batch number: 11123162401A	Sample number(s): 6267467-6267468,6267473-6267480									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11125162401A	Sample number(s): 6267469-6267472									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111171AA	Sample number(s): 6267467,6267469-6267475,6267478,6267480 UNSPK: 6267473								
Acetone	90	97	15-210	13	30				
Benzene	120	118	55-143	4	30				
Bromobenzene	113	109	43-139	3	30				
Bromochloromethane	123	127	60-137	9	30				
Bromodichloromethane	104	104	53-136	6	30				
Bromoform	90	92	38-124	8	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromomethane	111	107	42-168	2	30				
2-Butanone	84	90	37-163	13	30				
n-Butylbenzene	128	119	30-146	1	30				
sec-Butylbenzene	131	124	33-157	0	30				
tert-Butylbenzene	116	113	41-152	3	30				
Carbon Tetrachloride	113	111	45-153	4	30				
Chlorobenzene	112	110	49-135	4	30				
Chloroethane	114	109	39-152	1	30				
2-Chloroethyl Vinyl Ether	51	51	32-139	6	30				
Chloroform	112	111	61-142	5	30				
Chloromethane	109	107	51-163	4	30				
2-Chlorotoluene	118	114	42-146	2	30				
4-Chlorotoluene	117	111	39-145	1	30				
Chlorotrifluoroethene	91	86	70-130	8	30				
1,2-Dibromo-3-chloropropane	79	88	30-139	16	30				
Dibromochloromethane	98	100	51-128	8	30				
1,2-Dibromoethane	101	104	54-129	9	30				
Dibromomethane	100	101	57-130	6	30				
1,2-Dichlorobenzene	107	105	36-133	4	30				
1,3-Dichlorobenzene	113	107	34-134	1	30				
1,4-Dichlorobenzene	111	107	35-136	2	30				
Dichlorodifluoromethane	94	93	26-151	5	30				
1,1-Dichloroethane	115	115	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	5	30				
1,1-Dichloroethene	126	124	61-149	5	30				
cis-1,2-Dichloroethene	113	111	60-136	5	30				
trans-1,2-Dichloroethene	116	115	59-142	5	30				
1,2-Dichloropropane	114	113	62-135	5	30				
1,3-Dichloropropane	103	106	58-129	8	30				
2,2-Dichloropropane	102	102	53-147	6	30				
1,1-Dichloropropene	116	114	54-145	4	30				
cis-1,3-Dichloropropene	101	103	51-131	8	30				
trans-1,3-Dichloropropene	94	96	49-129	8	30				
Ethylbenzene	116	112	44-141	3	30				
Freon 113	136	132	56-156	3	30				
Freon 133a	115	109	61-131	8	30				
Hexachlorobutadiene	106	100	10-155	0	30				
2-Hexanone	82	90	32-160	15	30				
Isopropylbenzene	117	112	38-144	2	30				
p-Isopropyltoluene	124	116	29-152	1	30				
Methyl Tertiary Butyl Ether	88	94	55-129	13	30				
4-Methyl-2-pentanone	83	93	46-139	17	30				
Methylene Chloride	116	113	61-141	4	30				
n-Propylbenzene	134	123	39-157	3	30				
Styrene	107	103	35-134	3	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	7	30				
1,1,2,2-Tetrachloroethane	103	105	40-152	8	30				
Tetrachloroethene	115	112	42-149	3	30				
Toluene	116	114	50-146	4	30				
1,2,3-Trichlorobenzene	91	91	10-140	5	30				
1,2,4-Trichlorobenzene	90	89	10-136	5	30				
1,1,1-Trichloroethane	99	97	64-142	4	30				
1,1,2-Trichloroethane	103	105	54-139	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichloroethene	113	111	53-144	4	30				
Trichlorofluoromethane	115	112	47-163	3	30				
1,2,3-Trichloropropane	98	101	45-154	9	30				
1,2,4-Trimethylbenzene	118	113	37-149	2	30				
1,3,5-Trimethylbenzene	124	116	38-150	0	30				
Vinyl Chloride	109	107	50-154	4	30				
m+p-Xylene	114	110	44-137	3	30				
o-Xylene	107	105	42-137	4	30				
Batch number: E111152BA	Sample number(s): 6267467,6267469-6267475,6267478,6267480 UNSPK: 6267473								
1,4-Dioxane	104	103	70-130	7	30				
Batch number: 11120SLB026	Sample number(s): 6267469-6267472 UNSPK: P266014								
N-Nitrosodimethylamine	101	68*	70-130	35*	30				
Batch number: 11120SLD026	Sample number(s): 6267467-6267475,6267477-6267480 UNSPK: 6267473								
Acenaphthene	88	88	75-115	1	30				
Acenaphthylene	91	91	81-110	0	30				
Aniline	70	71	35-95	1	30				
Anthracene	92	91	75-115	1	30				
Benzidine	14*	15*	35-141	8	30				
Benzo(a)anthracene	91	91	65-122	0	30				
Benzo(a)pyrene	88	88	57-126	1	30				
Benzo(b)fluoranthene	90	91	59-125	1	30				
Benzo(g,h,i)perylene	86	87	59-127	2	30				
Benzo(k)fluoranthene	88	88	56-132	0	30				
Benzoic acid	78	77	10-173	1	30				
Benzyl alcohol	82	80	67-115	2	30				
4-Bromophenyl-phenylether	83	82	67-129	1	30				
Butylbenzylphthalate	102	103	73-134	1	30				
Di-n-butylphthalate	96	97	67-123	2	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	96	96	76-110	1	30				
4-Chloroaniline	81	78	23-95	4	30				
bis(2-Chloroethoxy)methane	92	90	75-104	1	30				
bis(2-Chloroethyl)ether	89	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	83	84	55-142	1	30				
2-Chloronaphthalene	89	86	50-141	4	30				
2-Chlorophenol	89	91	73-121	2	30				
4-Chlorophenyl-phenylether	86	88	80-109	3	30				
Chrysene	89	88	62-128	1	30				
Dibenz(a,h)anthracene	86	88	65-125	2	30				
Dibenzofuran	88	89	71-112	1	30				
1,2-Dichlorobenzene	81	84	66-108	4	30				
1,3-Dichlorobenzene	81	83	63-109	3	30				
1,4-Dichlorobenzene	82	84	70-100	2	30				
3,3'-Dichlorobenzidine	80	78	16-119	3	30				
2,4-Dichlorophenol	92	93	78-117	1	30				
Diethylphthalate	93	93	66-118	1	30				
2,4-Dimethylphenol	93	94	78-110	1	30				
3,5-Dimethylphenol	99	101	70-130	2	30				
Dimethylphthalate	88	89	64-118	2	30				
4,6-Dinitro-2-methylphenol	60	62	24-116	2	30				

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Quality Control Summary

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Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	33	34	20-143	3	30				
2,4-Dinitrotoluene	92	93	73-113	0	30				
2,6-Dinitrotoluene	88	89	69-123	1	30				
1,2-Diphenylhydrazine	100	100	71-129	0	30				
bis(2-Ethylhexyl)phthalate	105	107	63-122	2	30				
Fluoranthene	97	93	73-112	5	30				
Fluorene	90	92	77-111	1	30				
Hexachlorobenzene	82	83	77-114	2	30				
Hexachlorobutadiene	81	83	62-120	2	30				
Hexachlorocyclopentadiene	74	76	10-153	3	30				
Hexachloroethane	82	83	57-109	2	30				
Indeno(1,2,3-cd)pyrene	84	85	61-126	1	30				
Isophorone	90	90	73-102	0	30				
1-Methylnaphthalene	88	89	73-112	1	30				
2-Methylnaphthalene	80	81	76-114	1	30				
2-Methylphenol	91	92	75-111	1	30				
4-Methylphenol	91	94	71-111	3	30				
Naphthalene	84	85	72-116	0	30				
2-Nitroaniline	93	94	67-125	1	30				
3-Nitroaniline	91	93	59-122	2	30				
4-Nitroaniline	83	80	52-112	4	30				
Nitrobenzene	92	93	72-106	1	30				
2-Nitrophenol	87	91	74-115	4	30				
4-Nitrophenol	99	95	54-113	4	30				
N-Nitroso-di-n-propylamine	86	87	60-116	1	30				
N-Nitrosodimethylamine	83	90	47-116	9	30				
N-Nitrosodiphenylamine	91	92	86-145	2	30				
Di-n-octylphthalate	101	106	56-126	5	30				
Pentachlorophenol	67	66	28-127	2	30				
Phenanthrene	91	90	65-125	1	30				
Phenol	86	85	58-126	0	30				
Pyrene	93	95	74-126	1	30				
1,2,4-Trichlorobenzene	86	86	72-115	1	30				
2,4,5-Trichlorophenol	90	92	78-109	2	30				
2,4,6-Trichlorophenol	90	92	77-115	2	30				
Batch number: 11120SLE026	Sample number(s): 6267467-6267475,6267477-6267480 UNSPK: 6267473								
Acenaphthene	88	87	63-105	0	30				
Acenaphthylene	91	89	67-114	2	30				
Anthracene	94	94	60-122	0	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	108	106	45-138	2	30				
Benzo(b)fluoranthene	126	124	43-155	2	30				
Benzo(g,h,i)perylene	87	89	33-141	3	30				
Benzo(k)fluoranthene	100	99	42-144	1	30				
Butylbenzylphthalate	97	96	57-173	1	30				
Di-n-butylphthalate	104	109	65-148	5	30				
Chrysene	94	94	48-134	0	30				
Dibenz(a,h)anthracene	96	98	22-133	2	30				
Diethylphthalate	88	89	70-136	2	30				
Dimethylphthalate	95	95	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	104	102	39-167	2	30				
Fluoranthene	109	108	26-166	0	30				

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Quality Control Summary

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Reported: 05/20/11 at 11:16 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	94	93	66-122	1	30				
Indeno(1,2,3-cd)pyrene	94	97	21-143	2	30				
1-Methylnaphthalene	85	87	72-123	2	30				
2-Methylnaphthalene	77	78	64-103	1	30				
Naphthalene	85	89	61-102	5	30				
N-Nitrosodimethylamine	94	90	48-113	5	30				
Di-n-octylphthalate	107	104	40-192	3	30				
Phenanthrene	92	93	12-165	1	30				
Pyrene	87	85	15-153	2	30				
Batch number: 11112A34B	Sample number(s): 6267469-6267472 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111180034A	Sample number(s): 6267469-6267472 UNSPK: P264819								
4-Amino-2,6-Dinitrotoluene	110	110	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	110	109	80-137	1	50				
1,3-Dinitrobenzene	110	109	38-166	1	50				
2,4-Dinitrotoluene	107	106	80-131	1	50				
2,6-Dinitrotoluene	114	112	80-127	2	50				
HMX	98	97	63-128	1	50				
Nitrobenzene	107	103	80-125	3	50				
Nitroglycerin	103	103	80-120	0	50				
2-Nitrotoluene	110	107	80-122	3	50				
3-Nitrotoluene	111	110	72-119	1	50				
4-Nitrotoluene	106	104	80-125	1	50				
PETN	125*	124*	80-121	1	50				
RDX	96	96	75-129	0	50				
Tetryl	85	90	55-174	6	50				
1,3,5-Trinitrobenzene	108	107	82-126	1	50				
2,4,6-Trinitrotoluene	108	108	82-130	1	50				
Batch number: 111160002A	Sample number(s): 6267469-6267472 UNSPK: P262830								
25a Formaldehyde 8315A	97	103	80-120	7	50				
Batch number: 111200018A	Sample number(s): 6267467-6267475,6267477-6267479 UNSPK: 6267473								
PCB-1016	98	94	29-146	4	50				
PCB-1260	98	102	39-149	4	50				
Batch number: 111230023A	Sample number(s): 6267480 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111170029A	Sample number(s): 6267469-6267472 UNSPK: P262830								
EFH (C12-C14)	93	93	49-123	0	20				
EFH (C15-C20)	103	115	49-123	7	20				
EFH (C21-C30)	147*	157*	49-123	2	20				
EFH (C30 - C40)	159 (2)	228 (2)	49-123	8	20				
EFH (C8-C11)	73	70	49-123	5	20				
Batch number: 111170001A	Sample number(s): 6267467 UNSPK: 6267467								
Diethylene glycol	88	88	59-109	1	20				
Ethylene glycol	86	86	63-107	1	20				
Propylene glycol	87	84	63-107	4	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111180032A	Sample number(s): 6267469-6267472 UNSPK: 6267470								
Ethanol	81	80	48-130	1	20				
Isopropanol	81	80	12-149	2	20				
Methanol	79	78	43-138	1	20				
Batch number: 111190001A	Sample number(s): 6267468-6267472 UNSPK: 6267468								
Diethylene glycol	95	115*	59-109	19	20				
Ethylene glycol	96	116*	63-107	19	20				
Propylene glycol	95	113*	63-107	17	20				
Batch number: 111220022A	Sample number(s): 6267469-6267472 UNSPK: P262830								
m-Terphenyl	83	84	75-125	1	20				
o-Terphenyl	98	99	75-125	1	20				
p-Terphenyl	92	94	75-125	2	20				
Batch number: 111191026001A	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Strontium	101	99	75-115	1	20	16.3		16.3		0	20
Tin	84	84	80-110	0	20	3.12	J	2.96	J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040		1,040		1	20
Zirconium	98	96	75-125	1	20	0.832	U	1.16	J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6267467-6267480 UNSPK: 6267473 BKG: 6267473										
Mercury	78	78	65-135	3	20	0.0232	J	0.0055	J	123* (1)	20
Batch number: 111255708007	Sample number(s): 6267473-6267476,6267478-6267480 UNSPK: 6267473 BKG: 6267473										
Calcium	56 (2)	87 (2)	75-125	4	20	2,600		2,410		8	20
Batch number: 11122102201B	Sample number(s): 6267469-6267472 UNSPK: P266014 BKG: P266014										
17a Cyanide by 9012B	98		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11127621202A	Sample number(s): 6267467-6267474,6267476-6267479 UNSPK: 6267473 BKG: 6267473										
7a Perchlorate EPA 314.0	102		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11127621202B	Sample number(s): 6267480 UNSPK: 6267480 BKG: 6267480										
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11128621202A	Sample number(s): 6267467-6267474,6267476-6267479 UNSPK: 6267473 BKG: 6267473										
11a Anions by 300.0 - Fluoride	47*		80-120			2.0		1.9		7 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			1.1	J	1.1	J	6 (1)	20
Batch number: 11128621202B	Sample number(s): 6267480 UNSPK: 6267480 BKG: 6267480										
11a Anions by 300.0 - Fluoride	49*		80-120			2.7		2.3		15 (1)	20
Batch number: 11132243201A	Sample number(s): 6267467-6267474,6267476-6267480 UNSPK: 6267473 BKG: 6267473										
3a Cr VI by EPA 7199	87		75-125			0.20	U	0.58	J	200* (1)	20
Batch number: 11116039402B	Sample number(s): 6267467-6267473,6267476 BKG: 6267473										
18a pH by 9045C						6.86		6.87		0	1
Batch number: 11116039404A	Sample number(s): 6267477-6267480 BKG: 6267477										
18a pH by 9045C						6.86		6.70		2*	1
Batch number: 11116182102B	Sample number(s): 6267467-6267473,6267476 BKG: P266079										
32a OR Potential						407		407		0	6
Batch number: 11116182103A	Sample number(s): 6267477-6267480 BKG: 6267477										
32a OR Potential						409		414		1	6
Batch number: 11123162401A	Sample number(s): 6267467-6267468,6267473-6267480 BKG: 6267473										
28a Moisture Content by 160.3						10.8		11.0		2	20
Moisture Content by 160.3						10.8		11.0		2	20
Moisture Content by 160.3						10.8		11.0		2	20
Batch number: 11125162401A	Sample number(s): 6267469-6267472 BKG: P264819										
Moisture Content by 160.3						6.1		6.9		13	20

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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6267467	97	98	99	88
6267469	98	101	100	90
6267470	99	101	99	91
6267471	97	94	101	88
6267472	100	104	98	90
6267473	98	100	101	89
6267474	96	94	104	95
6267475	97	99	105	96
6267478	98	95	100	89
6267480	98	97	99	89
Blank	98	101	101	89
LCS	99	99	104	98
MS	96	94	104	95
MSD	97	99	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111151AA

	Toluene-d8
6267481	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111152BA

	Toluene-d8
6267467	97
6267469	97
6267470	97
6267471	97
6267472	97
6267473	97
6267474	97
6267475	97
6267478	96
6267480	97
Blank	97
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6267481	108	98	99	104
Blank	111	101	100	103
LCS	111	100	99	107
LCSD	108	100	99	108
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11120SLB026

	N-Nitrosodimethylamine-d6
6267469	109
6267470	136
6267471	173*
6267472	103
Blank	97
LCS	100
MS	112
MSD	118
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11120SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6267467	92	95	85	90	83	87
6267468	87	89	78	84	78	82
6267469	90	90	82	86	81	84
6267470	85	87	80	83	79	87
6267471	108	112	95	103	95	103
6267472	82	81	77	78	73	80
6267473	94	97	86	92	82	83
6267474	91	93	89	90	84	81
6267475	90	94	89	89	83	83
6267477	80	81	64	76	72	71
6267478	85	86	77	80	75	82
6267479	90	92	89	90	85	90
6267480	94	97	86	93	86	90
Blank	84	88	83	88	81	73
LCS	92	95	92	93	85	78
MS	91	93	89	90	84	81
MSD	90	94	89	89	83	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6267467	85	77	80
6267468	84	81	85

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

6267469	84	81	83
6267470	71	69	85
6267471	85	79	82
6267472	75	72	76
6267473	93	84	82
6267474	93	83	81
6267475	93	86	79
6267477	83	81	81
6267478	87	85	84
6267479	82	78	83
6267480	85	80	83
Blank	92	88	88
LCS	87	81	79
MS	93	83	81
MSD	93	86	79
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34B

	Trifluorotoluene-F
6267469	74
6267470	67
6267471	73
6267472	74
Blank	90
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11117B20A

	Trifluorotoluene-F
6267481	71
Blank	71
LCS	116
LCSD	113
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111160002A

	Butyraldehyde
6267469	82
6267470	88
6267471	84
6267472	79
Blank	95
LCS	98
MS	97
MSD	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111180034A

	2-Nitro-m-xylene
6267469	108
6267470	109
6267471	109
6267472	113
Blank	110
LCS	111
LCSD	112
MS	108
MSD	104

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111200018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6267467	92	95
6267468	88	90
6267469	85	90
6267470	85	89
6267471	81	85
6267472	85	87
6267473	102	97
6267474	99	80
6267475	91	90
6267477	92	87
6267478	79	80
6267479	89	82
Blank	105	101
LCS	89	100
LCSD	95	91
MS	99	80
MSD	91	90

Limits: 53-139 45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6267480	90	94
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*

Limits: 53-139 45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111170001A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

	Tetramethylene glycol
6267467	82
Blank	101
LCS	109
MS	91
MSD	88
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111170029A

	Chlorobenzene	Orthoterphenyl
6267469	59	80
6267470	58	82
6267471	55	79
6267472	57	80
Blank	93	110
LCS	91	108
MS	81	108
MSD	85	112
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111180032A

	Acetone
6267469	79
6267470	75
6267471	76
6267472	77
Blank	91
LCS	90
MS	74
MSD	72
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111190001A

	Tetramethylene glycol
6267468	102
6267469	101
6267470	96
6267471	87
6267472	92
Blank	102
LCS	113
MS	106
MSD	118
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243643
Reported: 05/20/11 at 11:16 AM

Surrogate Quality Control

Batch number: 111220022A

	n-Triacontane-d62
6267469	73
6267470	72
6267471	72
6267472	72
Blank	77
LCS	77
MS	72
MSD	76
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1243643 Sample#6267467-81

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS								Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C-&-PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-007-SA8N-SB-4.5	04.22.11	0930	SOIL	NONE	4-Encores									X	X										
SL-007-SA8N-SB-4.0-5.0	04.22.11	0933	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X											X	
SL-007-SA8N-SB-9.0-10.0	04.22.11	0945	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X											X	
SL-010-SA8N-SB-4.5	04.22.11	1107	SOIL	NONE	5-Encores									X	X	X									
SL-010-SA8N-SB-4.0-5.0	04.22.11	1110	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-010-SA8N-SB-9.5	04.22.11	1125	SOIL	NONE	5-Encores									X	X	X									
SL-010-SA8N-SB-9.0-10.0	04.22.11	1120	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-4.5	04.22.11	1250	SOIL	NONE	5-Encores									X	X	X									
SL-011-SA8N-SB-4.0-5.0	04.22.11	1252	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-9.5	04.22.11	1210	SOIL	NONE	5-Encores									X	X	X									
SL-011-SA8N-SB-9.0-10.0	04.22.11	1212	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	
SL-064-SA5A-SB-3.5MS	04.22.11	1110	SOIL	NONE	12-Encores									X	X										**MS/MSD**
SL-064-SA5A-SB-3.0-4.0MS	04.22.11	1110	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X												**MS/MSD**
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	1-Sleave									X	X										
SL-253-SA5A-SB-4.5	04.22.11	1535	SOIL	NONE	4-Encores									X	X										
SL-253-SA5A-SB-4.0-5.0	04.22.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
SL-253-SA5A-SB-8.0-9.0	04.22.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X												
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	4-Encores									X	X										
TB-042211	04.22.11	0800	WATER	NONE	4-40 mL vials									X	X	X									TRIP BLANK

Relinquished by: (*Signature*) Date/Time: 04/22/2011 / 1700

Received for Laboratory by: (*Signature*) Tammy Helal 4/23/11 0900

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) Date/Time

Airbill No.(s): 8695 1442 0188, 8700 5932 3021

Nicole Maljovec A#13013 Grp#1243643 Sample#G2607467-8

From: Nicole Maljovec
Sent: Friday, April 29, 2011 9:22 AM
To: 'Bloisa, Peggy'; Hartman, Pamela
Subject: RE: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

The attachment didn't come through. I can update the COC instead.

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, April 28, 2011 5:08 PM
To: Nicole Maljovec; Hartman, Pamela
Subject: RE: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

Hi Nicole – please see attached revised COC for 4/22. There should be no VOCs run on sample SL-166-SA5A-SS-0.0-0.5, but the SVOCs/PAHS/PCBs should be run on the sleeve.

Thanks! Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, April 28, 2011 1:17 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 4/22: VOCs on SL-166-SA5A-SS-0.0-0.5

Hi Peggy and Pam,
I'm a little behind right now. Can you check this COC and let me know if the VOC analysis on SL-166-SA5A-SS-0.0-0.5 is really needed? We didn't receive any encores for this location, so we assumed it was a typo.

Thanks,
Nicole

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Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

acct#13013 Op#1243643 Sample#6267467-81

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs-EPA 8270C-SIM PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Fuels EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total Amino EPA 8015B	**Glycols EPA 8015A	**Alcohols EPA 8015B	Other Instructions and Notes
																											Amended COC
SL-007-SA8N-SB-4.5	04.22.11	0930	SOIL	NONE	4-Encores										X	X											
SL-007-SA8N-SB-4.0-5.0	04.22.11	0933	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-007-SA8N-SB-9.0-10.0	04.22.11	0945	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-010-SA8N-SB-4.5	04.22.11	1107	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-4.0-5.0	04.22.11	1110	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SB-8.5	04.22.11	1125	SOIL	NONE	5-Encores										X	X	X										
SL-010-SA8N-SB-8.0-10.0	04.22.11	1120	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-4.5	04.22.11	1250	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-4.0-5.0	04.22.11	1252	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SB-9.5	04.22.11	1210	SOIL	NONE	5-Encores										X	X	X										
SL-011-SA8N-SB-9.0-10.0	04.22.11	1212	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-064-SA5A-SB-3.5MS	04.22.11	1110	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-064-SA5A-SB-3.0-4.0MS	04.22.11	1110	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-166-SA5A-SS-0.0-0.5	04.22.11	1345	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
~~SL-166-SA5A-SS-0.0-0.5~~	~~04.22.11~~	~~1345~~	~~SOIL~~	~~NONE~~	~~1-Sleeve~~									~~—~~	~~X~~	~~X~~											
SL-253-SA5A-SB-4.5	04.22.11	1535	SOIL	NONE	4-Encores										X	X											
SL-253-SA5A-SB-4.0-5.0	04.22.11	1530	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-253-SA5A-SB-8.0-9.0	04.22.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
DUP16-SA5A-QC-042211	04.22.11	1115	SOIL	NONE	4-Encores										X	X											
TB-042211	04.22.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/22/2011 / 1700	Tammy Helal 4/23/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0188, 8700 5932 3021	

The volatiles analysis was removed from sample SL-166-SA5A-SS-0.0-0.5 per PB.

NLM 4/29/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/26/2011
Group Number: 1243763
SDG: DE136
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-036-SA8N-SB-4.0-5.0 Soil	6268204
SL-036-SA8N-SB-9.0-10.0 Soil	6268205
TB-042511 Water	6268206

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268204
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0364 SDG#: DE136-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.0	U	7.0	8.4	0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.2	0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.89
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2	0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2	0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2	0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.89
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.89
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.89
06192	Methylene Chloride	75-09-2	7.5		0.25	4.2	0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.89

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268204
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

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S0364 SDG#: DE136-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2	0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.2	0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2	0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2	0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	22.12
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268204
LLI Group # 1243763
Account # 13013

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S0364 SDG#: DE136-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.81	J	0.78	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6268204
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S0364 SDG#: DE136-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.4	30.49
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C30 - C40)	n.a.	0.86	J	0.47	1.4	1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,400		5.86	23.3	1
07914	Boron	7440-42-8	16.1		1.04	5.82	1
01650	Calcium	7440-70-2	19,200		7.14	23.3	1
01654	Iron	7439-89-6	34,100		27.4	116	5
01656	Lithium	7439-93-2	28.4		0.26	2.3	1
01657	Magnesium	7439-95-4	7,600		2.96	11.6	1
06958	Manganese	7439-96-5	456		0.0909	0.582	1
10145	Phosphorus	7723-14-0	305		0.652	11.6	1
01662	Potassium	7440-09-7	4,690		21.0	58.2	1
01667	Sodium	7440-23-5	126		43.4	116	1
07968	Strontium	7440-24-6	48.3		0.0722	0.582	1
06969	Tin	7440-31-5	3.32	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,510		0.443	1.16	1
10146	Zirconium	7440-67-7	3.71	J	0.978	5.82	1

*=This limit was used in the evaluation of the final result

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114 J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.35	0.0905	0.452	2
06126	Barium	7440-39-3	181	0.122	0.452	2
06127	Beryllium	7440-41-7	1.09	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.331	0.0452	0.113	2
06131	Chromium	7440-47-3	37.0	0.136	0.452	2
06132	Cobalt	7440-48-4	14.7	0.0226	0.113	2
06133	Copper	7440-50-8	20.5	0.0747	0.452	2
06135	Lead	7439-92-1	11.8	0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.361	0.0566	0.113	2
06139	Nickel	7440-02-0	26.3	0.113	0.452	2
06141	Selenium	7782-49-2	0.173 J	0.0452	0.452	2
06142	Silver	7440-22-4	0.0569 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.435	0.0339	0.113	2
06148	Vanadium	7440-62-2	68.6	0.0249	0.113	2
06149	Zinc	7440-66-6	82.9	0.633	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	363	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268204
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0364 SDG#: DE136-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111171AA	04/27/2011 10:25	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111192AA	04/29/2011 23:24	Sara E Johnson	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111624233	04/26/2011 15:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111624233	04/26/2011 15:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111624233	04/26/2011 15:29	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111624233	04/26/2011 15:25	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 15:50	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 11:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 13:16	Elizabeth J Marin	30.49
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111624233	04/26/2011 15:23	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 04:31	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 10:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 10:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:30	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268204
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0364 SDG#: DE136-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 05:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 16:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11132243201A	05/15/2011 17:03	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	210	U	210	620	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100	1
04688	Benzoic acid	65-85-0	210	U	210	620	1
04688	Benzyl alcohol	100-51-6	210	U	210	620	1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210	1
04688	Carbazole	86-74-8	21	U	21	210	1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210	1
04688	4-Chloroaniline	106-47-8	83	U	83	210	1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210	1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210	1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210	1
04688	2-Chlorophenol	95-57-8	21	U	21	210	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210	1
04688	Dibenzofuran	132-64-9	21	U	21	210	1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210	1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210	1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210	1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210	1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620	1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210	1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210	1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210	1
04688	Hexachlorobenzene	118-74-1	21	U	21	210	1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210	1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620	1
04688	Hexachloroethane	67-72-1	21	U	21	210	1
04688	Isophorone	78-59-1	21	U	21	210	1
04688	2-Methylphenol	95-48-7	41	U	41	210	1
04688	4-Methylphenol	106-44-5	41	U	41	210	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	21	U	21	210	1
04688	3-Nitroaniline	99-09-2	41	U	41	210	1
04688	4-Nitroaniline	100-01-6	83	U	83	210	1
04688	Nitrobenzene	98-95-3	21	U	21	210	1
04688	2-Nitrophenol	88-75-5	21	U	21	210	1
04688	4-Nitrophenol	100-02-7	210	U	210	620	1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210	1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	210	U	210	620	1
04688	Phenol	108-95-2	21	U	21	210	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0	1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0	1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.82	U	0.82	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.82	U	0.82	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.82	U	0.82	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22	1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22	1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0	1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22	1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	U	7.4	22	1
10138	Fluoranthene	206-44-0	0.82	U	0.82	2.0	1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0	1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22	1
10138	Phenanthrene	85-01-8	0.82	U	0.82	2.0	1
10138	Pyrene	129-00-0	0.82	U	0.82	2.0	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	20.16
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1	1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1	1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1	1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1	1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1	1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1	1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1	1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1	1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1	1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.50	U	0.50	1.5	1
10199	EFH (C15-C20)	n.a.	0.50	U	0.50	1.5	1
10199	EFH (C21-C30)	n.a.	0.50	U	0.50	1.5	1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.50	1.5	1
10199	EFH (C8-C11)	n.a.	0.50	U	0.50	1.5	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,400		6.13	24.4	1
07914	Boron	7440-42-8	13.1		1.08	6.09	1
01650	Calcium	7440-70-2	28,800		7.47	24.4	1
01654	Iron	7439-89-6	33,800		28.7	122	5
01656	Lithium	7439-93-2	30.4		0.27	2.4	1
01657	Magnesium	7439-95-4	7,680		3.09	12.2	1
06958	Manganese	7439-96-5	346		0.0950	0.609	1
10145	Phosphorus	7723-14-0	209		0.682	12.2	1
01662	Potassium	7440-09-7	2,500		21.9	60.9	1
01667	Sodium	7440-23-5	135		45.4	122	1
07968	Strontium	7440-24-6	52.8		0.0755	0.609	1
06969	Tin	7440-31-5	3.59	J	1.22	12.2	1
06970	Titanium	7440-32-6	1,140		0.463	1.22	1
10146	Zirconium	7440-67-7	1.60	J	1.02	6.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0745	U	0.0745	0.248	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.21		0.0994	0.497	2
06126	Barium	7440-39-3	143		0.134	0.497	2
06127	Beryllium	7440-41-7	0.983		0.0199	0.124	2
06128	Cadmium	7440-43-9	0.254		0.0497	0.124	2
06131	Chromium	7440-47-3	38.1		0.149	0.497	2
06132	Cobalt	7440-48-4	12.8		0.0248	0.124	2
06133	Copper	7440-50-8	21.1		0.0820	0.497	2
06135	Lead	7439-92-1	11.4		0.0129	0.248	2
06138	Molybdenum	7439-98-7	0.241		0.0621	0.124	2
06139	Nickel	7440-02-0	27.0		0.124	0.497	2
06141	Selenium	7782-49-2	0.101	J	0.0497	0.497	2
06142	Silver	7440-22-4	0.0794	J	0.0149	0.124	2
06145	Thallium	7440-28-0	0.359		0.0373	0.124	2
06148	Vanadium	7440-62-2	71.9		0.0273	0.124	2
06149	Zinc	7440-66-6	80.4		0.696	3.73	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.122	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.99	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.2	U	11.2	37.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	353		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.08		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	19.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 16:16	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 12:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 13:52	Elizabeth J Marin	20.16
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111624233	04/26/2011 15:28	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 04:50	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111170029A	04/30/2011 11:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111170029A	04/28/2011 07:30	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 10:07	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 16:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 06:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 17:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11132243201A	05/15/2011 17:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268205
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0369 SDG#: DE136-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11132243201A	05/12/2011 12:10	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042511 Water
SSFL Area IV Collocated Soil Sampling
TB-042511

LLI Sample # WW 6268206
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 08:00

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB425 SDG#: DE136-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042511 Water
SSFL Area IV Collocated Soil Sampling
TB-042511

LLI Sample # WW 6268206
LLI Group # 1243763
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 08:00

Submitted: 04/26/2011 08:50
Reported: 05/20/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB425 SDG#: DE136-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111171AA	04/27/2011 13:30	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011 11:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111171AA	04/27/2011 13:30	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111191AA	04/29/2011 11:00	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11122A20A	05/02/2011 17:15	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11122A20A	05/02/2011 17:15	Laura M Krieger	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111171AA	Sample number(s): 6268204									
Acetone	6.7	U	6.7	8.0	ug/kg	97		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	119		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	86		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	95		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	86		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	96		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	94		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	52		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	95		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	77		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	85		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	90		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	101		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	74		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	103		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	88		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	84		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	86		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	85		61-134		
Methylene Chloride	0.46	J	0.24	4.0	ug/kg	107		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	97		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.08	J	0.08	4.0	ug/kg	103		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	99		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	97		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	96		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	105		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	101		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111191AA	Sample number(s): 6268206									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	113	80-123	8	30
Batch number: E111192AA	Sample number(s): 6268204									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	115	70-130	5	30
Batch number: Y111171AA	Sample number(s): 6268206									
Acetone	6	U	6.	20	ug/l	100	100	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	90	92	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	112	107	80-120	4	30
Bromoform	1	U	1.	5	ug/l	94	93	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	121*	125*	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	99	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	122	117	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	115	112	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	95	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	114	109	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	128	139*	60-129	8	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	92	95	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	89	86	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	104	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	107	104	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	91	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	123*	122*	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	103	103	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	131*	126	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	107	105	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	94	92	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	97	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	97	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	120	118	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	108	104	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	101	101	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	101	102	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	132*	132*	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	92	94	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	99	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	102	100	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	99	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	105	103	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	102	102	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	94	93	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	88	88	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	96	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	92	91	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	94	93	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	87	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	106	103	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	91	88	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	105	101	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	123	119	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	99	100	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	101	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	124	127*	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	94	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11118SLK026	Sample number(s): 6268204-6268205									
Aniline	170 U		170.	500	ug/kg	82		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	46		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	101		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	94		79-117		
Carbazole	33	U	33.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	93		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	86		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	104		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	33	U	33.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	96		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	110		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	97		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Isophorone	33	U	33.	170	ug/kg	100		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	103		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	112		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	99		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	98		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	100		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		
Phenol	33	U	33.	170	ug/kg	105		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11120SLG026	Sample number(s): 6268204-6268205									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		56-121		
Batch number: 11119A34A	Sample number(s): 6268204-6268205									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11122A20A	Sample number(s): 6268206									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111230023A	Sample number(s): 6268204-6268205									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111170029A	Sample number(s): 6268204-6268205									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	78		66-113		
Batch number: 111191026001A	Sample number(s): 6268204-6268205									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6268204-6268205									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6268204-6268205									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6268204-6268205									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6268204-6268205									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6268204-6268205									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 11127127203A	Sample number(s): 6268204-6268205									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11129621202A	Sample number(s): 6268204-6268205									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
Batch number: 11132243201A	Sample number(s): 6268204-6268205									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	86		80-120		
Batch number: 11123039401A	Sample number(s): 6268204-6268205									
18a pH by 9045C						100		95-105		
Batch number: 11123182101A	Sample number(s): 6268204-6268205									
32a OR Potential						99		98-102		
Batch number: 11123162401B	Sample number(s): 6268204-6268205									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111171AA	Sample number(s): 6268204 UNSPK: P267473								
Acetone	90	97	15-210	13	30				
Benzene	120	118	55-143	4	30				
Bromobenzene	113	109	43-139	3	30				
Bromochloromethane	123	127	60-137	9	30				
Bromodichloromethane	104	104	53-136	6	30				
Bromoform	90	92	38-124	8	30				
Bromomethane	111	107	42-168	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Butanone	84	90	37-163	13	30				
n-Butylbenzene	128	119	30-146	1	30				
sec-Butylbenzene	131	124	33-157	0	30				
tert-Butylbenzene	116	113	41-152	3	30				
Carbon Tetrachloride	113	111	45-153	4	30				
Chlorobenzene	112	110	49-135	4	30				
Chloroethane	114	109	39-152	1	30				
2-Chloroethyl Vinyl Ether	51	51	32-139	6	30				
Chloroform	112	111	61-142	5	30				
Chloromethane	109	107	51-163	4	30				
2-Chlorotoluene	118	114	42-146	2	30				
4-Chlorotoluene	117	111	39-145	1	30				
Chlorotrifluoroethene	91	86	70-130	8	30				
1,2-Dibromo-3-chloropropane	79	88	30-139	16	30				
Dibromochloromethane	98	100	51-128	8	30				
1,2-Dibromoethane	101	104	54-129	9	30				
Dibromomethane	100	101	57-130	6	30				
1,2-Dichlorobenzene	107	105	36-133	4	30				
1,3-Dichlorobenzene	113	107	34-134	1	30				
1,4-Dichlorobenzene	111	107	35-136	2	30				
Dichlorodifluoromethane	94	93	26-151	5	30				
1,1-Dichloroethane	115	115	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	5	30				
1,1-Dichloroethene	126	124	61-149	5	30				
cis-1,2-Dichloroethene	113	111	60-136	5	30				
trans-1,2-Dichloroethene	116	115	59-142	5	30				
1,2-Dichloropropane	114	113	62-135	5	30				
1,3-Dichloropropane	103	106	58-129	8	30				
2,2-Dichloropropane	102	102	53-147	6	30				
1,1-Dichloropropene	116	114	54-145	4	30				
cis-1,3-Dichloropropene	101	103	51-131	8	30				
trans-1,3-Dichloropropene	94	96	49-129	8	30				
Ethylbenzene	116	112	44-141	3	30				
Freon 113	136	132	56-156	3	30				
Freon 133a	115	109	61-131	8	30				
Hexachlorobutadiene	106	100	10-155	0	30				
2-Hexanone	82	90	32-160	15	30				
Isopropylbenzene	117	112	38-144	2	30				
p-Isopropyltoluene	124	116	29-152	1	30				
Methyl Tertiary Butyl Ether	88	94	55-129	13	30				
4-Methyl-2-pentanone	83	93	46-139	17	30				
Methylene Chloride	116	113	61-141	4	30				
n-Propylbenzene	134	123	39-157	3	30				
Styrene	107	103	35-134	3	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	7	30				
1,1,2,2-Tetrachloroethane	103	105	40-152	8	30				
Tetrachloroethene	115	112	42-149	3	30				
Toluene	116	114	50-146	4	30				
1,2,3-Trichlorobenzene	91	91	10-140	5	30				
1,2,4-Trichlorobenzene	90	89	10-136	5	30				
1,1,1-Trichloroethane	99	97	64-142	4	30				
1,1,2-Trichloroethane	103	105	54-139	8	30				
Trichloroethene	113	111	53-144	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichlorofluoromethane	115	112	47-163	3	30				
1,2,3-Trichloropropane	98	101	45-154	9	30				
1,2,4-Trimethylbenzene	118	113	37-149	2	30				
1,3,5-Trimethylbenzene	124	116	38-150	0	30				
Vinyl Chloride	109	107	50-154	4	30				
m+p-Xylene	114	110	44-137	3	30				
o-Xylene	107	105	42-137	4	30				
Batch number: 11118SLK026	Sample number(s): 6268204-6268205 UNSPK: P264845								
Aniline	71	79	35-95	11	30				
Benzidine	0*	21*	35-141	200*	30				
Benzoic acid	90	90	10-173	1	30				
Benzyl alcohol	95	91	67-115	5	30				
4-Bromophenyl-phenylether	95	90	67-129	5	30				
Carbazole	95	92	64-120	4	30				
4-Chloro-3-methylphenol	98	96	76-110	3	30				
4-Chloroaniline	49	61	23-95	23	30				
bis(2-Chloroethoxy)methane	94	93	75-104	2	30				
bis(2-Chloroethyl)ether	95	87	60-116	9	30				
bis(2-Chloroisopropyl)ether	86	81	55-142	6	30				
2-Chloronaphthalene	77	91	50-141	17	30				
2-Chlorophenol	97	94	73-121	5	30				
4-Chlorophenyl-phenylether	92	92	80-109	1	30				
Dibenzofuran	98	94	71-112	4	30				
1,2-Dichlorobenzene	90	86	66-108	5	30				
1,3-Dichlorobenzene	90	82	63-109	10	30				
1,4-Dichlorobenzene	92	85	70-100	8	30				
3,3'-Dichlorobenzidine	58	62	16-119	7	30				
2,4-Dichlorophenol	98	99	78-117	2	30				
2,4-Dimethylphenol	97	96	78-110	2	30				
3,5-Dimethylphenol	94	97	70-130	3	30				
4,6-Dinitro-2-methylphenol	98	84	24-116	16	30				
2,4-Dinitrophenol	80	65	20-143	23	30				
2,4-Dinitrotoluene	103	98	73-113	5	30				
2,6-Dinitrotoluene	101	94	69-123	8	30				
1,2-Diphenylhydrazine	101	97	71-129	4	30				
Hexachlorobenzene	93	89	77-114	6	30				
Hexachlorobutadiene	93	88	62-120	5	30				
Hexachlorocyclopentadiene	92	86	10-153	7	30				
Hexachloroethane	81	78	57-109	4	30				
Isophorone	95	94	73-102	2	30				
2-Methylphenol	98	92	75-111	6	30				
4-Methylphenol	102	105	71-111	4	30				
2-Nitroaniline	98	95	67-125	4	30				
3-Nitroaniline	90	87	59-122	5	30				
4-Nitroaniline	67	72	52-112	7	30				
Nitrobenzene	95	97	72-106	2	30				
2-Nitrophenol	97	93	74-115	5	30				
4-Nitrophenol	86	85	54-113	2	30				
N-Nitroso-di-n-propylamine	91	87	60-116	5	30				
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Pentachlorophenol	90	90	28-127	1	30				
Phenol	99	96	58-126	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	96	94	72-115	3	30				
2,4,5-Trichlorophenol	98	94	78-109	4	30				
2,4,6-Trichlorophenol	99	98	77-115	1	30				
Batch number: 11120SLG026	Sample number(s): 6268204-6268205 UNSPK: 6268204								
Acenaphthene	85	86	63-105	1	30				
Acenaphthylene	85	86	67-114	1	30				
Anthracene	86	82	60-122	6	30				
Benzo(a)anthracene	88	89	59-128	1	30				
Benzo(a)pyrene	100	101	45-138	1	30				
Benzo(b)fluoranthene	101	103	43-155	2	30				
Benzo(g,h,i)perylene	115	115	33-141	1	30				
Benzo(k)fluoranthene	104	102	42-144	4	30				
Butylbenzylphthalate	94	101	57-173	6	30				
Di-n-butylphthalate	87	86	65-148	2	30				
Chrysene	93	92	48-134	3	30				
Dibenz(a,h)anthracene	114	110	22-133	6	30				
Diethylphthalate	77	77	70-136	2	30				
Dimethylphthalate	92	92	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	100	104	39-167	4	30				
Fluoranthene	90	89	26-166	3	30				
Fluorene	87	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	113	112	21-143	2	30				
1-Methylnaphthalene	85	88	72-123	3	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	87	89	48-113	2	30				
Di-n-octylphthalate	107	109	40-192	1	30				
Phenanthrene	89	89	12-165	2	30				
Pyrene	93	91	15-153	3	30				
Batch number: 11119A34A	Sample number(s): 6268204-6268205 UNSPK: P272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111230023A	Sample number(s): 6268204-6268205 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111170029A	Sample number(s): 6268204-6268205 UNSPK: P262830								
EFH (C12-C14)	93	93	49-123	0	20				
EFH (C15-C20)	103	115	49-123	7	20				
EFH (C21-C30)	147*	157*	49-123	2	20				
EFH (C30 - C40)	159 (2)	228 (2)	49-123	8	20				
EFH (C8-C11)	73	70	49-123	5	20				
Batch number: 111191026001A	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20

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Quality Control Summary

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Reported: 05/20/11 at 10:53 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20
Strontium	101	99	75-115	1	20	16.3	16.3	0	20
Tin	84	84	80-110	0	20	3.12 J	2.96 J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040	1,040	1	20
Zirconium	98	96	75-125	1	20	0.832 U	1.16 J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
Mercury	78	78	65-135	3	20	0.0232 J	0.0055 J	123* (1)	20
Batch number: 11127127203A	Sample number(s): 6268204-6268205 UNSPK: 6268204 BKG: 6268204								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11129621202A	Sample number(s): 6268204-6268205 UNSPK: 6268204 BKG: 6268204								
11a Anions by 300.0 - Fluoride	81		80-120			2.3	2.6	12 (1)	20
Batch number: 11132243201A	Sample number(s): 6268204-6268205 UNSPK: P267473 BKG: P267473								
3a Cr VI by EPA 7199	87		75-125			0.20 U	0.58 J	200* (1)	20
Batch number: 11123039401A	Sample number(s): 6268204-6268205 BKG: P269637								
18a pH by 9045C						8.03	8.12	1	1
Batch number: 11123182101A	Sample number(s): 6268204-6268205 BKG: P269637								
32a OR Potential						369	369	0	6
Batch number: 11123162401B	Sample number(s): 6268204-6268205 BKG: 6268204								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						15.0	14.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6268204	102	103	100	88
Blank	98	101	101	89
LCS	99	99	104	98
MS	96	94	104	95
MSD	97	99	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111191AA

	Toluene-d8
6268206	101
Blank	101
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111192AA

	Toluene-d8
6268204	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6268206	107	100	99	103
Blank	111	101	100	103
LCS	111	100	99	107
LCSD	108	100	99	108

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Surrogate Quality Control

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11118SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6268204	92	93	82	85	89	90
6268205	87	87	78	80	83	93
Blank	90	89	92	85	86	84
LCS	99	97	94	93	89	98
MS	93	97	84	90	89	95
MSD	90	91	82	88	88	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6268204	89	86	90
6268205	85	80	89
Blank	88	86	91
LCS	92	85	89
MS	90	85	88
MSD	95	84	85
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34A

	Trifluorotoluene-F
6268204	78
6268205	74
Blank	93
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11122A20A

	Trifluorotoluene-F
6268206	72
Blank	73
LCS	112
LCSD	114
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243763
Reported: 05/20/11 at 10:53 AM

Surrogate Quality Control

6268204	109	102
6268205	84	84
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111170029A

	Chlorobenzene	Orthoterphenyl
6268204	58	80
6268205	56	74
Blank	93	110
LCS	91	108
MS	81	108
MSD	85	112
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1243763 6268204-05

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers (5 Encores)																						
SL-036-SA8N-SB-4.5	04.25.11	1111	SOIL	NONE	~~1 Encores~~ 2										X	X	X										
SL-036-SA8N-SB-4.0-5.0	04.25.11	1114	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.0-10.0	04.25.11	1118	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.5	04.25.11	1125	SOIL	NONE	1-Encore												X										
TB-042511	04.25.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/25/2011 / 1700		Received for Laboratory by: (Signature) 4/26/11 850																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No(s) 8695 1441 6472																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/27/2011
Group Number: 1244036
SDG: DE137
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-027-SA8N-SB-4.0-5.0 Soil	6269636
SL-027-SA8N-SB-9.0-10.0 Soil	6269637
SL-028-SA8N-SB-4.0-5.0 Soil	6269638
SL-028-SA8N-SB-9.0-10.0 Soil	6269639
TB-042611 Water	6269640

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	19		6.7	8.0	0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0	0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.87
06192	Chloroform	67-66-3	0.17	J	0.12	4.0	0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0	0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.88	J	0.39	8.0	0.87
06192	Methylene Chloride	75-09-2	37		0.24	4.0	0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.87

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.87
06192	Toluene	108-88-3	0.14	J	0.08	4.0	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0	0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	22.94
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C30 - C40)	n.a.	1.5		0.46	1.4	1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,500		5.83	23.2	1
07914	Boron	7440-42-8	12.9		1.03	5.79	1
01650	Calcium	7440-70-2	26,400		7.10	23.2	1
01654	Iron	7439-89-6	32,400		27.3	116	5
01656	Lithium	7439-93-2	26.5		0.25	2.3	1
01657	Magnesium	7439-95-4	7,260		2.94	11.6	1
06958	Manganese	7439-96-5	317		0.0904	0.579	1
10145	Phosphorus	7723-14-0	218		0.649	11.6	1
01662	Potassium	7440-09-7	2,500		20.9	57.9	1
01667	Sodium	7440-23-5	268		43.2	116	1
07968	Strontium	7440-24-6	48.3		0.0718	0.579	1
06969	Tin	7440-31-5	3.25	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,080		0.440	1.16	1
10146	Zirconium	7440-67-7	2.01	J	0.973	5.79	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0956 J	0.0695	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.51	0.0927	0.463	2
06126	Barium	7440-39-3	150	0.125	0.463	2
06127	Beryllium	7440-41-7	1.07	0.0185	0.116	2
06128	Cadmium	7440-43-9	0.228	0.0463	0.116	2
06131	Chromium	7440-47-3	32.5	0.139	0.463	2
06132	Cobalt	7440-48-4	17.7	0.0232	0.116	2
06133	Copper	7440-50-8	18.9	0.0765	0.463	2
06135	Lead	7439-92-1	12.5	0.0121	0.232	2
06138	Molybdenum	7439-98-7	0.237	0.0579	0.116	2
06139	Nickel	7440-02-0	24.0	0.116	0.463	2
06141	Selenium	7782-49-2	0.0733 J	0.0463	0.463	2
06142	Silver	7440-22-4	0.0436 J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.329	0.0348	0.116	2
06148	Vanadium	7440-62-2	57.0	0.0255	0.116	2
06149	Zinc	7440-66-6	73.4	0.649	3.48	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.3	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	358	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 16:04	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111192AA	04/29/2011 23:43	Sara E Johnson	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 17:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111724242	04/27/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111724242	04/27/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111724242	04/27/2011 17:47	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 16:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 13:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 14:28	Elizabeth J Marin	22.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 17:46	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 05:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 20:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 10:10	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 02:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:43	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269636
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13701 SDG#: DE137-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 06:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 18:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/17/2011 00:20	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9	20.29
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.46	1.4	1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,700		5.64	22.4	1
07914	Boron	7440-42-8	9.91		0.997	5.60	1
01650	Calcium	7440-70-2	19,900		6.87	22.4	1
01654	Iron	7439-89-6	29,100		5.28	22.4	1
01656	Lithium	7439-93-2	31.7		0.25	2.2	1
01657	Magnesium	7439-95-4	6,000		2.85	11.2	1
06958	Manganese	7439-96-5	321		0.0874	0.560	1
10145	Phosphorus	7723-14-0	308		0.627	11.2	1
01662	Potassium	7440-09-7	3,300		20.2	56.0	1
01667	Sodium	7440-23-5	272		41.8	112	1
07968	Strontium	7440-24-6	43.6		0.0695	0.560	1
06969	Tin	7440-31-5	3.44	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,220		0.426	1.12	1
10146	Zirconium	7440-67-7	2.38	J	0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.211	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.50		0.0905	0.453	2
06126	Barium	7440-39-3	133		0.122	0.453	2
06127	Beryllium	7440-41-7	1.07		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.362		0.0453	0.113	2
06131	Chromium	7440-47-3	30.9		0.136	0.453	2
06132	Cobalt	7440-48-4	10.1		0.0226	0.113	2
06133	Copper	7440-50-8	17.7		0.0747	0.453	2
06135	Lead	7439-92-1	9.61		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.567		0.0566	0.113	2
06139	Nickel	7440-02-0	25.5		0.113	0.453	2
06141	Selenium	7782-49-2	0.0686	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0634	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.451		0.0339	0.113	2
06148	Vanadium	7440-62-2	63.8		0.0249	0.113	2
06149	Zinc	7440-66-6	77.5		0.634	3.39	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107	J	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	369		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 17:09	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 13:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 15:05	Elizabeth J Marin	20.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 18:09	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 05:27	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 21:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 06:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 18:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/17/2011 00:39	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269637
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13702 SDG#: DE137-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	12		7.4	8.9	0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.94
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4	0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4	0.94
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	0.94
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.94
06192	Chloroform	67-66-3	0.29	J	0.13	4.4	0.94
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4	0.94
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4	0.94
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4	0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4	0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.94
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4	0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.94
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4	0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9	0.94
06192	Methylene Chloride	75-09-2	44		0.27	4.4	0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.94

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4	0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.94
06192	Toluene	108-88-3	0.13	J	0.09	4.4	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4	0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.1	U	6.1	18	26.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2	25.2
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C21-C30)	n.a.	1.4	J	0.47	1.4	1
10199	EFH (C30 - C40)	n.a.	6.0		0.47	1.4	1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,000		5.69	22.6	1
07914	Boron	7440-42-8	12.1		1.01	5.66	1
01650	Calcium	7440-70-2	47,600		6.93	22.6	1
01654	Iron	7439-89-6	28,700		5.33	22.6	1
01656	Lithium	7439-93-2	26.2		0.25	2.3	1
01657	Magnesium	7439-95-4	7,230		2.87	11.3	1
06958	Manganese	7439-96-5	408		0.0882	0.566	1
10145	Phosphorus	7723-14-0	259		0.633	11.3	1
01662	Potassium	7440-09-7	2,110		20.4	56.6	1
01667	Sodium	7440-23-5	316		42.2	113	1
07968	Strontium	7440-24-6	57.3		0.0701	0.566	1
06969	Tin	7440-31-5	3.13	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,160		0.430	1.13	1
10146	Zirconium	7440-67-7	2.99	J	0.950	5.66	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0855 J	0.0685	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.53	0.0914	0.457	2
06126	Barium	7440-39-3	113	0.123	0.457	2
06127	Beryllium	7440-41-7	1.04	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.210	0.0457	0.114	2
06131	Chromium	7440-47-3	34.2	0.137	0.457	2
06132	Cobalt	7440-48-4	8.46	0.0228	0.114	2
06133	Copper	7440-50-8	16.2	0.0754	0.457	2
06135	Lead	7439-92-1	8.21	0.0119	0.228	2
06138	Molybdenum	7439-98-7	0.145	0.0571	0.114	2
06139	Nickel	7440-02-0	23.5	0.114	0.457	2
06141	Selenium	7782-49-2	0.0581 J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0375 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.244	0.0343	0.114	2
06148	Vanadium	7440-62-2	56.4	0.0251	0.114	2
06149	Zinc	7440-66-6	58.8	0.640	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.117	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	375	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 16:27	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111192AA	04/30/2011 00:03	Sara E Johnson	26.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 17:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111724242	04/27/2011 18:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111724242	04/27/2011 18:02	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111724242	04/27/2011 17:56	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 17:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 14:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 15:41	Elizabeth J Marin	25.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 17:55	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 05:45	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 21:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:49	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269638
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13703 SDG#: DE137-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 16:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 06:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 18:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/17/2011 00:45	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.05
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	2.0		0.44	1.3	1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		5.43	21.6	1
07914	Boron	7440-42-8	4.60	J	0.961	5.40	1
01650	Calcium	7440-70-2	50,500		6.62	21.6	1
01654	Iron	7439-89-6	17,500		5.09	21.6	1
01656	Lithium	7439-93-2	22.6		0.24	2.2	1
01657	Magnesium	7439-95-4	3,760		2.74	10.8	1
06958	Manganese	7439-96-5	185		0.0842	0.540	1
10145	Phosphorus	7723-14-0	220		0.605	10.8	1
01662	Potassium	7440-09-7	1,760		19.4	54.0	1
01667	Sodium	7440-23-5	221		40.3	108	1
07968	Strontium	7440-24-6	59.2		0.0670	0.540	1
06969	Tin	7440-31-5	3.07	J	1.08	10.8	1
06970	Titanium	7440-32-6	1,040		0.410	1.08	1
10146	Zirconium	7440-67-7	1.50	J	0.907	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.06		0.0856	0.428	2
06126	Barium	7440-39-3	67.3		0.116	0.428	2
06127	Beryllium	7440-41-7	0.620		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.155		0.0428	0.107	2
06131	Chromium	7440-47-3	14.4		0.128	0.428	2
06132	Cobalt	7440-48-4	5.11		0.0214	0.107	2
06133	Copper	7440-50-8	6.28		0.0706	0.428	2
06135	Lead	7439-92-1	4.42		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.145		0.0535	0.107	2
06139	Nickel	7440-02-0	9.72		0.107	0.428	2
06141	Selenium	7782-49-2	0.0818	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0133	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.234		0.0321	0.107	2
06148	Vanadium	7440-62-2	32.6		0.0235	0.107	2
06149	Zinc	7440-66-6	48.1		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	372		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11118SLK026	05/06/2011 18:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 14:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11118SLK026	04/29/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 16:17	Elizabeth J Marin	25.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111724242	04/27/2011 18:00	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 06:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 22:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 07:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 19:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/17/2011 00:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269639
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13704 SDG#: DE137-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042611 Water
SSFL Area IV Collocated Soil Sampling
TB-042611

LLI Sample # WW 6269640
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 08:00

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13705 SDG#: DE137-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042611 Water
SSFL Area IV Collocated Soil Sampling
TB-042611

LLI Sample # WW 6269640
LLI Group # 1244036
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 08:00

Submitted: 04/27/2011 09:15
Reported: 05/20/2011 10:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13705 SDG#: DE137-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111192AA	04/29/2011 16:11	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011 11:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111191AA	04/29/2011 11:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111192AA	04/29/2011 16:11	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11122A20A	05/02/2011 17:37	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11122A20A	05/02/2011 17:37	Laura M Krieger	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111231AA	Sample number(s): 6269636,6269638									
Acetone	9.9		6.7	8.0	ug/kg	103		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	123		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	96		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	100		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	114		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	93		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	97		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	116		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	104		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	83		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	116		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	104		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	104		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	98		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	102		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	108		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E111191AA	Sample number(s): 6269640									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	113	80-123	8	30
Batch number: E111192AA	Sample number(s): 6269636,6269638									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	115	70-130	5	30
Batch number: Y111192AA	Sample number(s): 6269640									
Acetone	6	U	6.	20	ug/l	117	102	49-234	14	30
Benzene	0.5	U	0.5	5	ug/l	93	93	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	108	109	80-120	1	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	117	118	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	97	94	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	90	90	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	92	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	119	116	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	106	110	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	96	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	110	109	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	121	125	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	90	89	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	90	92	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	88	88	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	97	95	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	122*	121*	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	95	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	124	126	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	102	97	74-123	5	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	90	86	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	91	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	91	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	118	116	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	100	100	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	99	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	104	96	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	131*	123*	77-120	7	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	92	89	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	101	98	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	92	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	87	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	81	81	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	101	101	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	88	88	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	102	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	90	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	103	103	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	124	119	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	94	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	97	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	118	119	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
Batch number: 11118SLK026	Sample number(s): 6269636-6269639									
Aniline	170 U		170.	500	ug/kg	82		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	46		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	101		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	94		79-117		
Carbazole	33	U	33.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	93		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	86		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	104		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	33	U	33.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	96		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	110		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	97		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Isophorone	33	U	33.	170	ug/kg	100		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	103		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	112		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	99		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	98		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	100		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		
Phenol	33	U	33.	170	ug/kg	105		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11120SLG026	Sample number(s): 6269636-6269639									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		56-121		
Batch number: 11119A34A	Sample number(s): 6269636-6269639									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11122A20A	Sample number(s): 6269640									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111230023A	Sample number(s): 6269636-6269639									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111190003A	Sample number(s): 6269636-6269639									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	69		66-113		
Batch number: 111191026001A	Sample number(s): 6269636-6269639									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6269636-6269639									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6269636-6269639									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6269636-6269639									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6269636-6269639									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6269636-6269639									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 11127127203A	Sample number(s): 6269636-6269639									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11129621202A	Sample number(s): 6269636-6269639									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
Batch number: 11135243202A	Sample number(s): 6269636-6269639									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11123039401A	Sample number(s): 6269636-6269639									
18a pH by 9045C						100		95-105		
Batch number: 11123182101A	Sample number(s): 6269636-6269639									
32a OR Potential						99		98-102		
Batch number: 11123162401B	Sample number(s): 6269636-6269639									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111231AA	Sample number(s): 6269636,6269638 UNSPK: P272812								
Acetone	97	101	15-210	2	30				
Benzene	105	109	55-143	1	30				
Bromobenzene	86	99	43-139	11	30				
Bromochloromethane	112	124	60-137	8	30				
Bromodichloromethane	90	93	53-136	1	30				
Bromoform	81	85	38-124	3	30				
Bromomethane	103	105	42-168	0	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Butanone	75	83	37-163	8	30				
n-Butylbenzene	67	87	30-146	23	30				
sec-Butylbenzene	78	98	33-157	19	30				
tert-Butylbenzene	70	88	41-152	21	30				
Carbon Tetrachloride	98	102	45-153	1	30				
Chlorobenzene	87	95	49-135	6	30				
Chloroethane	101	105	39-152	1	30				
2-Chloroethyl Vinyl Ether	71	79	32-139	9	30				
Chloroform	100	104	61-142	1	30				
Chloromethane	104	112	51-163	4	30				
2-Chlorotoluene	82	96	42-146	14	30				
4-Chlorotoluene	79	92	39-145	13	30				
Chlorotrifluoroethene	124	127	70-130	4	30				
1,2-Dibromo-3-chloropropane	67	77	30-139	11	30				
Dibromochloromethane	87	92	51-128	3	30				
1,2-Dibromoethane	89	98	54-129	6	30				
Dibromomethane	89	94	57-130	3	30				
1,2-Dichlorobenzene	74	86	36-133	13	30				
1,3-Dichlorobenzene	74	88	34-134	15	30				
1,4-Dichlorobenzene	75	88	35-136	14	30				
Dichlorodifluoromethane	94	100	26-151	3	30				
1,1-Dichloroethane	104	108	63-142	0	30				
1,2-Dichloroethane	90	94	68-131	2	30				
1,1-Dichloroethene	120	117	61-149	5	30				
cis-1,2-Dichloroethene	100	104	60-136	2	30				
trans-1,2-Dichloroethene	105	106	59-142	2	30				
1,2-Dichloropropane	99	103	62-135	1	30				
1,3-Dichloropropane	94	100	58-129	3	30				
2,2-Dichloropropane	90	95	53-147	2	30				
1,1-Dichloropropene	99	103	54-145	2	30				
cis-1,3-Dichloropropene	83	89	51-131	5	30				
trans-1,3-Dichloropropene	79	86	49-129	6	30				
Ethylbenzene	85	94	44-141	8	30				
Freon 113	131	128	56-156	5	30				
Freon 133a	109	110	61-131	6	30				
Hexachlorobutadiene	55	76	10-155	30	30				
2-Hexanone	75	87	32-160	13	30				
Isopropylbenzene	78	89	38-144	11	30				
p-Isopropyltoluene	73	91	29-152	19	30				
Methyl Tertiary Butyl Ether	83	88	55-129	3	30				
4-Methyl-2-pentanone	77	85	46-139	7	30				
Methylene Chloride	254*	258*	61-141	1	30				
n-Propylbenzene	87	104	39-157	15	30				
Styrene	77	85	35-134	8	30				
1,1,1,2-Tetrachloroethane	88	95	52-130	5	30				
1,1,2,2-Tetrachloroethane	84	95	40-152	10	30				
Tetrachloroethene	125	135	42-149	4	30				
Toluene	98	105	50-146	4	30				
1,2,3-Trichlorobenzene	53	63	10-140	16	30				
1,2,4-Trichlorobenzene	49	61	10-136	18	30				
1,1,1-Trichloroethane	100	105	64-142	2	30				
1,1,2-Trichloroethane	96	99	54-139	1	30				
Trichloroethene	99	104	53-144	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichlorofluoromethane	109	114	47-163	2	30				
1,2,3-Trichloropropane	91	103	45-154	10	30				
1,2,4-Trimethylbenzene	79	92	37-149	13	30				
1,3,5-Trimethylbenzene	81	96	38-150	15	30				
Vinyl Chloride	105	112	50-154	4	30				
m+p-Xylene	82	92	44-137	9	30				
o-Xylene	79	88	42-137	9	30				
Batch number: 11118SLK026	Sample number(s): 6269636-6269639 UNSPK: P264845								
Aniline	71	79	35-95	11	30				
Benzidine	0*	21*	35-141	200*	30				
Benzoic acid	90	90	10-173	1	30				
Benzyl alcohol	95	91	67-115	5	30				
4-Bromophenyl-phenylether	95	90	67-129	5	30				
Carbazole	95	92	64-120	4	30				
4-Chloro-3-methylphenol	98	96	76-110	3	30				
4-Chloroaniline	49	61	23-95	23	30				
bis(2-Chloroethoxy)methane	94	93	75-104	2	30				
bis(2-Chloroethyl)ether	95	87	60-116	9	30				
bis(2-Chloroisopropyl)ether	86	81	55-142	6	30				
2-Chloronaphthalene	77	91	50-141	17	30				
2-Chlorophenol	97	94	73-121	5	30				
4-Chlorophenyl-phenylether	92	92	80-109	1	30				
Dibenzofuran	98	94	71-112	4	30				
1,2-Dichlorobenzene	90	86	66-108	5	30				
1,3-Dichlorobenzene	90	82	63-109	10	30				
1,4-Dichlorobenzene	92	85	70-100	8	30				
3,3'-Dichlorobenzidine	58	62	16-119	7	30				
2,4-Dichlorophenol	98	99	78-117	2	30				
2,4-Dimethylphenol	97	96	78-110	2	30				
3,5-Dimethylphenol	94	97	70-130	3	30				
4,6-Dinitro-2-methylphenol	98	84	24-116	16	30				
2,4-Dinitrophenol	80	65	20-143	23	30				
2,4-Dinitrotoluene	103	98	73-113	5	30				
2,6-Dinitrotoluene	101	94	69-123	8	30				
1,2-Diphenylhydrazine	101	97	71-129	4	30				
Hexachlorobenzene	93	89	77-114	6	30				
Hexachlorobutadiene	93	88	62-120	5	30				
Hexachlorocyclopentadiene	92	86	10-153	7	30				
Hexachloroethane	81	78	57-109	4	30				
Isophorone	95	94	73-102	2	30				
2-Methylphenol	98	92	75-111	6	30				
4-Methylphenol	102	105	71-111	4	30				
2-Nitroaniline	98	95	67-125	4	30				
3-Nitroaniline	90	87	59-122	5	30				
4-Nitroaniline	67	72	52-112	7	30				
Nitrobenzene	95	97	72-106	2	30				
2-Nitrophenol	97	93	74-115	5	30				
4-Nitrophenol	86	85	54-113	2	30				
N-Nitroso-di-n-propylamine	91	87	60-116	5	30				
N-Nitrosodiphenylamine	96	98	86-145	2	30				
Pentachlorophenol	90	90	28-127	1	30				
Phenol	99	96	58-126	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	96	94	72-115	3	30				
2,4,5-Trichlorophenol	98	94	78-109	4	30				
2,4,6-Trichlorophenol	99	98	77-115	1	30				
Batch number: 11120SLG026	Sample number(s): 6269636-6269639 UNSPK: P268204								
Acenaphthene	85	86	63-105	1	30				
Acenaphthylene	85	86	67-114	1	30				
Anthracene	86	82	60-122	6	30				
Benzo(a)anthracene	88	89	59-128	1	30				
Benzo(a)pyrene	100	101	45-138	1	30				
Benzo(b)fluoranthene	101	103	43-155	2	30				
Benzo(g,h,i)perylene	115	115	33-141	1	30				
Benzo(k)fluoranthene	104	102	42-144	4	30				
Butylbenzylphthalate	94	101	57-173	6	30				
Di-n-butylphthalate	87	86	65-148	2	30				
Chrysene	93	92	48-134	3	30				
Dibenz(a,h)anthracene	114	110	22-133	6	30				
Diethylphthalate	77	77	70-136	2	30				
Dimethylphthalate	92	92	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	100	104	39-167	4	30				
Fluoranthene	90	89	26-166	3	30				
Fluorene	87	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	113	112	21-143	2	30				
1-Methylnaphthalene	85	88	72-123	3	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	87	89	48-113	2	30				
Di-n-octylphthalate	107	109	40-192	1	30				
Phenanthrene	89	89	12-165	2	30				
Pyrene	93	91	15-153	3	30				
Batch number: 11119A34A	Sample number(s): 6269636-6269639 UNSPK: P272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111230023A	Sample number(s): 6269636-6269639 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111190003A	Sample number(s): 6269636-6269639 UNSPK: 6269636								
EFH (C12-C14)	82	80	49-123	3	20				
EFH (C15-C20)	101	100	49-123	1	20				
EFH (C21-C30)	112	91	49-123	21*	20				
EFH (C30 - C40)	86	77	49-123	7	20				
EFH (C8-C11)	56	52	49-123	7	20				
Batch number: 111191026001A	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20
Strontium	101	99	75-115	1	20	16.3	16.3	0	20
Tin	84	84	80-110	0	20	3.12 J	2.96 J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040	1,040	1	20
Zirconium	98	96	75-125	1	20	0.832 U	1.16 J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6269636-6269639 UNSPK: P267473 BKG: P267473								
Mercury	78	78	65-135	3	20	0.0232 J	0.0055 J	123* (1)	20
Batch number: 11127127203A	Sample number(s): 6269636-6269639 UNSPK: P268204 BKG: P268204								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11129621202A	Sample number(s): 6269636-6269639 UNSPK: P268204 BKG: P268204								
11a Anions by 300.0 - Fluoride	81		80-120			2.3	2.6	12 (1)	20
Batch number: 11135243202A	Sample number(s): 6269636-6269639 UNSPK: P264845 BKG: P264845								
3a Cr VI by EPA 7199	86		75-125			0.35 J	0.54 J	44* (1)	20
Batch number: 11123039401A	Sample number(s): 6269636-6269639 BKG: 6269637								
18a pH by 9045C						8.03	8.12	1	1
Batch number: 11123182101A	Sample number(s): 6269636-6269639 BKG: 6269637								
32a OR Potential						369	369	0	6
Batch number: 11123162401B	Sample number(s): 6269636-6269639 BKG: P268204								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						15.0	14.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6269636	95	99	102	90
6269638	93	97	101	88
Blank	94	103	100	90
LCS	95	107	102	97
MS	93	96	106	96
MSD	94	99	107	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111191AA

	Toluene-d8
6269640	101
Blank	101
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111192AA

	Toluene-d8
6269636	98
6269638	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6269640	113	102	95	99
Blank	112	98	97	102
LCS	112	100	97	103

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Quality Control Summary

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Reported: 05/20/11 at 10:59 AM

Surrogate Quality Control

LCSD	111	103	96	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11118SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6269636	89	89	86	84	88	94
6269637	94	96	85	86	89	96
6269638	95	95	87	86	89	94
6269639	88	89	79	84	85	90
Blank	90	89	92	85	86	84
LCS	99	97	94	93	89	98
MS	93	97	84	90	89	95
MSD	90	91	82	88	88	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6269636	85	85	89
6269637	83	77	84
6269638	87	82	91
6269639	87	83	88
Blank	88	86	91
LCS	92	85	89
MS	90	85	88
MSD	95	84	85
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34A

	Trifluorotoluene-F
6269636	74
6269637	73
6269638	79
6269639	83
Blank	93
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11122A20A

	Trifluorotoluene-F
6269640	72
Blank	73
LCS	112

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244036
Reported: 05/20/11 at 10:59 AM

Surrogate Quality Control

LCSD 114

Limits: 63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6269636	78	75
6269637	119	117
6269638	89	88
6269639	151*	149*
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111190003A

	Chlorobenzene	Orthoterphenyl
6269636	64	75
6269637	65	85
6269638	62	77
6269639	61	74
Blank	79	96
LCS	78	96
MS	71	94
MSD	78	97
Limits:	37-125	47-145

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acct# 13013 Cp# 1244036 sample# 6269636-40

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270-SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-027-SA8N-SB-4.5	04.26.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA8N-SB-4.0-5.0	04.26.11	1054	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-027-SA8N-SB-9.5	04.26.11	1058	SOIL	NONE	1-Encore												X										
SL-027-SA8N-SB-9.0-10.0	04.26.11	1101	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-4.5	04.26.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA8N-SB-4.0-5.0	04.26.11	1219	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-9.5	04.26.11	1224	SOIL	NONE	1-Encore												X										
SL-028-SA8N-SB-9.0-10.0	04.26.11	1228	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
TB-042611	04.26.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/26/2011 / 1700		Received for Laboratory by: (Signature) Kristi Leigh 4-27-11 0915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1441 6483; [redacted]																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/28/2011
Group Number: 1244255
SDG: DE138
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA8N-SB-4.0-5.0 Soil	6270787
SL-032-SA8N-SB-9.0-10.0 Soil	6270788
FB07-SA8N-QC-042711 Water	6270789
TB-042711 Water	6270790

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1		6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.86
06192	Methylene Chloride	75-09-2	17		0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.14	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1

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Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.76
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.49	J	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	2.4		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	37,500		5.96	23.7		1
07914	Boron	7440-42-8	13.7		1.05	5.92		1
01650	Calcium	7440-70-2	17,000		7.26	23.7		1
01654	Iron	7439-89-6	36,900		27.9	118		5
01656	Lithium	7439-93-2	32.6		0.26	2.4		1
01657	Magnesium	7439-95-4	8,060		3.01	11.8		1
06958	Manganese	7439-96-5	471		0.0924	0.592		1
10145	Phosphorus	7723-14-0	134		0.664	11.8		1
01662	Potassium	7440-09-7	2,420		21.3	59.2		1
01667	Sodium	7440-23-5	233		44.2	118		1
07968	Strontium	7440-24-6	64.5		0.0735	0.592		1
06969	Tin	7440-31-5	3.49	J	1.18	11.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,250		0.450	1.18		1
10146	Zirconium	7440-67-7	2.07	J	0.995	5.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0711	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.78		0.0948	0.474		2
06126	Barium	7440-39-3	140		0.128	0.474		2
06127	Beryllium	7440-41-7	1.09		0.0190	0.118		2
06128	Cadmium	7440-43-9	0.195		0.0474	0.118		2
06131	Chromium	7440-47-3	34.7		0.142	0.474		2
06132	Cobalt	7440-48-4	12.0		0.0237	0.118		2
06133	Copper	7440-50-8	20.3		0.0782	0.474		2
06135	Lead	7439-92-1	11.0		0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.238		0.0592	0.118		2
06139	Nickel	7440-02-0	25.0		0.118	0.474		2
06141	Selenium	7782-49-2	0.0637	J	0.0474	0.474		2
06142	Silver	7440-22-4	0.0709	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.301		0.0355	0.118		2
06148	Vanadium	7440-62-2	62.9		0.0261	0.118		2
06149	Zinc	7440-66-6	68.2		0.664	3.55		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0182	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	376		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 16:49	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111192AA	04/30/2011 00:23	Sara E Johnson	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111824254	04/28/2011 17:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111824254	04/28/2011 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111824254	04/28/2011 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111824254	04/28/2011 17:22	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 18:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 15:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 16:53	Elizabeth J Marin	23.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111824254	04/28/2011 17:22	Lois E Hiltz	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111220020A	05/04/2011 11:14	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 06:22	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111220020A	05/03/2011 10:05	Maria Davenport	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 18:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1

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Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270787
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0324 SDG#: DE138-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 10:13	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 07:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 19:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/17/2011 01:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.24
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.55	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	1.7		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		5.86	23.3		1
07914	Boron	7440-42-8	8.10		1.04	5.82		1
01650	Calcium	7440-70-2	233,000		35.7	116		5
01654	Iron	7439-89-6	15,700		5.48	23.3		1
01656	Lithium	7439-93-2	22.8		0.26	2.3		1
01657	Magnesium	7439-95-4	4,940		2.96	11.6		1
06958	Manganese	7439-96-5	177		0.0908	0.582		1
10145	Phosphorus	7723-14-0	272		0.652	11.6		1
01662	Potassium	7440-09-7	1,420		21.0	58.2		1
01667	Sodium	7440-23-5	142		43.4	116		1
07968	Strontium	7440-24-6	268		0.0722	0.582		1
06969	Tin	7440-31-5	2.27	J	1.16	11.6		1
06970	Titanium	7440-32-6	726		0.442	1.16		1
10146	Zirconium	7440-67-7	2.25	J	0.978	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0901	J	0.0705	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0940	0.470		2
06126	Barium	7440-39-3	103		0.127	0.470		2
06127	Beryllium	7440-41-7	0.588		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.227		0.0470	0.118		2
06131	Chromium	7440-47-3	20.7		0.141	0.470		2
06132	Cobalt	7440-48-4	6.02		0.0235	0.118		2
06133	Copper	7440-50-8	10.6		0.0776	0.470		2
06135	Lead	7439-92-1	5.93		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.198		0.0588	0.118		2
06139	Nickel	7440-02-0	14.0		0.118	0.470		2
06141	Selenium	7782-49-2	0.101	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0262	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.222		0.0353	0.118		2
06148	Vanadium	7440-62-2	42.2		0.0259	0.118		2
06149	Zinc	7440-66-6	37.6		0.658	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0251	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 18:54	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 15:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 17:30	Elizabeth J Marin	22.24
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111824254	04/28/2011 17:26	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 06:40	Richard A Shober	1

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Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111180035A	05/02/2011 18:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111180035A	04/29/2011 14:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 10:17	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 16:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11129621202A	05/11/2011 07:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 19:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11135243202A	05/17/2011 01:23	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11129621202A	05/09/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270788
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0329 SDG#: DE138-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.39	J	1.00	2.00		1
Reporting limits were raised due to limited sample volume.								
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.074	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.064	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.12	J	0.050	1.0		1

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.026	J	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.030	J	0.010	0.050		1
10137	Naphthalene	91-20-3	0.22		0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate .11 ug/l di-n-butylphthalate .089 ug/l bis(2-ethylhexyl)phthalate .056 ug/l These blank values were not subtracted from the analytical results.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.52		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.083	U	0.083	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.52		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.52		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	52	U	52	210		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.052		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.052		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0022	U	0.0022	0.011		1
00177	Alpha BHC	319-84-6	0.0032	U	0.0032	0.011		1
00177	Beta BHC	319-85-7	0.0031	U	0.0031	0.011		1
00177	Gamma BHC - Lindane	58-89-9	0.0022	U	0.0022	0.011		1
00177	Chlordane	57-74-9	0.13	U	0.13	0.54		1
00177	p,p-DDD	72-54-8	0.0054	U	0.0054	0.022		1
00177	p,p-DDE	72-55-9	0.0054	U	0.0054	0.022		1
00177	p,p-DDT	50-29-3	0.0054	U	0.0054	0.022		1
00177	Delta BHC	319-86-8	0.0031	U	0.0031	0.011		1
00177	Dieldrin	60-57-1	0.0057	U	0.0057	0.022		1
00177	Endosulfan I	959-98-8	0.0046	U	0.0046	0.011		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.022		1
00177	Endosulfan Sulfate	1031-07-8	0.0062	U	0.0062	0.022		1
00177	Endrin	72-20-8	0.0087	U	0.0087	0.022		1
00177	Endrin Aldehyde	7421-93-4	0.022	U	0.022	0.11		1
00177	Endrin Ketone	53494-70-5	0.0054	U	0.0054	0.022		1
00177	Heptachlor	76-44-8	0.0028	U	0.0028	0.011		1
00177	Heptachlor Epoxide	1024-57-3	0.0025	U	0.0025	0.011		1
00177	Methoxychlor	72-43-5	0.032	U	0.032	0.11		1
00177	Mirex	2385-85-5	0.091	U	0.091	0.27		1
00177	Toxaphene	8001-35-2	1.1	U	1.1	3.2		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.54		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.54		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.54		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.54		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.54		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.54		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.54		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.54		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.54		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.54		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.54		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.54		1
GC Extractable TPH	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.0	0.010	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB07-SA8N-QC-042711 Water**
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111192AA	04/29/2011 16:32	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011 11:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111191AA	04/29/2011 11:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111192AA	04/29/2011 16:32	Nicholas R Rossi	1
10962	15b NDMA by 1625C	EPA 1625C	1	11122WAA026	05/17/2011 14:59	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11123WAA026	05/04/2011 09:46	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11123WAE026	05/05/2011 10:01	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11123WAA026	05/03/2011 16:30	JoElla L Rice	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11123WAE026	05/03/2011 21:20	Karen L Beyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11122WAA026	05/02/2011 14:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11122A20A	05/02/2011 17:58	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11122A20A	05/02/2011 17:58	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111190007A	05/02/2011 23:19	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111190005A	05/01/2011 12:19	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111190004A	05/02/2011 12:39	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111230012A	05/04/2011 16:52	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111230013A	05/06/2011 02:22	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111230013A	05/04/2011 05:00	Roman Kuropatkin	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111230012A	05/04/2011 05:00	Roman Kuropatkin	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111190004A	04/30/2011 03:55	Roman Kuropatkin	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111190005A	04/30/2011 07:30	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111190007A	04/30/2011 09:45	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111230003A	05/04/2011 15:35	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111230029A	05/03/2011 19:44	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111190002A	04/29/2011 17:52	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111220014A	05/05/2011 12:21	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111230003A	05/03/2011 19:30	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111220014A	05/02/2011 17:00	Timothy J Attenberger	1
01743	Aluminum	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
08014	Boron	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1

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Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270789
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

FB-07 SDG#: DE138-03FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
01756	Lithium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
07058	Manganese	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
10143	Phosphorus	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
01762	Potassium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
01767	Sodium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
08068	Strontium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
07069	Tin	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
07070	Titanium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
10144	Zirconium	SW-846 6010B	1	111231848004	05/07/2011 07:18	Damary Valentin	1
06024	Antimony	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111246050002D	05/06/2011 13:57	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111246050002C	05/06/2011 13:57	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111246050002B	05/06/2011 13:57	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111246050002A	05/06/2011 13:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111185713005	05/02/2011 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111231848004	05/04/2011 09:03	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111246050002	05/05/2011 09:38	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111185713005	04/29/2011 16:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11118196601B	04/29/2011 00:14	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11118196601B	04/29/2011 00:14	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11132621701A	05/12/2011 14:30	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11118196401A	04/28/2011 12:12	Venia B McFadden	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11122117101A	05/03/2011 09:25	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11122117101A	05/02/2011 15:30	Carolyn M Mastropietro	1
00200	18b pH by 9040B	SW-846 9040B	1	11119020001A	04/29/2011 20:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-042711 Water
SSFL Area IV Collocated Soil Sampling
TB-042711

LLI Sample # WW 6270790
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 08:00

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB427 SDG#: DE138-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042711 Water
SSFL Area IV Collocated Soil Sampling
TB-042711

LLI Sample # WW 6270790
LLI Group # 1244255
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 08:00

Submitted: 04/28/2011 09:30
Reported: 05/20/2011 11:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB427 SDG#: DE138-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111192AA	04/29/2011	16:53	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011	12:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111191AA	04/29/2011	12:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111192AA	04/29/2011	16:53	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11122A20A	05/02/2011	18:20	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11122A20A	05/02/2011	18:20	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111231AA	Sample number(s): 6270787									
Acetone	9.9		6.7	8.0	ug/kg	103		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	123		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	96		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	100		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	114		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	93		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	97		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	116		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	104		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	83		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	116		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	104		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	104		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	98		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	102		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	108		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E111191AA	Sample number(s): 6270789-6270790									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	113	80-123	8	30
Batch number: E111192AA	Sample number(s): 6270787									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	115	70-130	5	30
Batch number: Y111192AA	Sample number(s): 6270789-6270790									
Acetone	6	U	6.	20	ug/l	117	102	49-234	14	30
Benzene	0.5	U	0.5	5	ug/l	93	93	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	108	109	80-120	1	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	117	118	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	97	94	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	90	90	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	92	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	119	116	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	106	110	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	96	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	110	109	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	121	125	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	90	89	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	90	92	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	88	88	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	97	95	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	122*	121*	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	95	79-120	3	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	124	126	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	102	97	74-123	5	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	90	86	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	91	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	91	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	118	116	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	100	100	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	99	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	104	96	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	131*	123*	77-120	7	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	92	89	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	101	98	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	92	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	87	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	81	81	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	101	101	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	88	88	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	102	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	90	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	103	103	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	124	119	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	94	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	97	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	118	119	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
Batch number: 11120SLG026	Sample number(s): 6270787-6270788									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		56-121		
Batch number: 11122WAA026	Sample number(s): 6270789									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	74	75	70-130	2	30
Batch number: 11123WAA026	Sample number(s): 6270789									
Aniline	1	U	1.	5	ug/l	75	82	49-101	9	30
Benzidine	20	U	20.	60	ug/l	76	85	34-117	11	30
Benzoic acid	6	U	6.	15	ug/l	35	36	10-69	4	30
Benzyl alcohol	5	U	5.	15	ug/l	70	73	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	100	82-117	5	30
Carbazole	1	U	1.	5	ug/l	89	92	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	88	91	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	72	83	42-124	14	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	98	74-124	7	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	87	92	77-108	6	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	84	90	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	98	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	86	88	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	97	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	92	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	78	86	55-118	9	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	79	84	50-119	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	79	85	53-119	7	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	79	49-111	17	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	93	94	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	92	94	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	90	92	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	112	115	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	113	118	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	92	95	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	94	97	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	102	105	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	101	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	95	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	93	104	36-118	11	30
Hexachloroethane	1	U	1.	5	ug/l	77	84	52-113	9	30
Isophorone	1	U	1.	5	ug/l	92	96	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	72	74	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	68	69	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	90	93	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	84	88	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	71	74	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	94	99	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	94	97	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	40	36	16-78	10	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	90	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	93	95	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	95	97	53-110	2	30
Phenol	1	U	1.	5	ug/l	37	38	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	94	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	92	93	79-107	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	100	81-113	3	30
Batch number: 11123WAE026	Sample number(s): 6270789									
Acenaphthene	0.010	U	0.010	0.050	ug/l	93	94	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	92	93	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	92	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	95	94	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	107	106	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	114	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	122	119	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	109	107	59-130	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	90	93	40-138	4	30
Di-n-butylphthalate	0.089	J	0.050	1.0	ug/l	92	93	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	98	99	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	116	113	55-134	2	30
Diethylphthalate	0.11	J	0.050	1.0	ug/l	84	84	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	82	82	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.056	J	0.050	1.0	ug/l	99	104	57-154	4	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	94	93	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	96	97	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	118	115	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	92	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	83	81	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	91	88	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	55	58	36-89	5	30
Di-n-octylphthalate	0.24	J	0.050	1.0	ug/l	111	112	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	93	91	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	101	99	69-118	2	30
Batch number: 11124SLA026	Sample number(s): 6270787-6270788									
Aniline	170 U		170.	500	ug/kg	72		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	93		79-117		
Carbazole	33	U	33.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	86		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	76		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	91		70-130		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	96		53-110		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	96		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	91		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	93		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	98		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	94		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	92		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	95		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	92		51-117		
Phenol	33	U	33.	170	ug/kg	96		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11119A34A	Sample number(s): 6270787-6270788									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11122A20A	Sample number(s): 6270789-6270790									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111190007A	Sample number(s): 6270789									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	100	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	107	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	107	107	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	99	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	110	110	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	92	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	74-120	3	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	98	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	100	99	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	99	100	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	110*	110*	76-109	0	30
Batch number: 111190005A	Sample number(s): 6270789									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	102	69-130	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111190004A	Sample number(s): 6270789								
2,4-D	0.16 U	0.16	0.50	ug/l	92	96	73-157	4	30
Dalapon	0.25 U	0.25	1.3	ug/l	60	65	40-100	8	30
2,4-DB	0.30 U	0.30	1.0	ug/l	80	80	65-130	0	30
Dicamba	0.080 U	0.080	0.30	ug/l	104	104	68-135	0	30
Dinoseb	0.10 U	0.10	0.50	ug/l	70	70	32-91	0	30
2,4-DP (Dichlorprop)	0.16 U	0.16	0.50	ug/l	120	120	76-170	0	30
MCPA	300 U	300.	1,000	ug/l	94	94	65-128	0	30
MCPP	50 U	50.	200	ug/l	92	96	67-137	4	30
2,4,5-T	0.015 U	0.015	0.050	ug/l	88	92	63-147	4	30
2,4,5-TP	0.010 U	0.010	0.050	ug/l	92	92	63-134	0	30
Batch number: 111220020A	Sample number(s): 6270787								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111230012A	Sample number(s): 6270789								
Aldrin	0.0020 U	0.0020	0.010	ug/l	111	101	54-159	10	30
Alpha BHC	0.0030 U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029 U	0.0029	0.010	ug/l	113	113	73-147	0	30
Gamma BHC - Lindane	0.0020 U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12 U	0.12	0.50	ug/l					
p,p-DDD	0.0050 U	0.0050	0.020	ug/l	110	110	71-139	0	30
p,p-DDE	0.0050 U	0.0050	0.020	ug/l	116	111	66-130	5	30
p,p-DDT	0.0050 U	0.0050	0.020	ug/l	85	90	53-126	6	30
Delta BHC	0.0029 U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053 U	0.0053	0.020	ug/l	105	110	76-132	5	30
Endosulfan I	0.0043 U	0.0043	0.010	ug/l	100	100	68-128	0	30
Endosulfan II	0.015 U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058 U	0.0058	0.020	ug/l	115	110	71-142	4	30
Endrin	0.0081 U	0.0081	0.020	ug/l	100	95	52-132	5	30
Endrin Aldehyde	0.020 U	0.020	0.10	ug/l	120	125	68-139	4	20
Endrin Ketone	0.0050 U	0.0050	0.020	ug/l	115	115	69-146	0	30
Heptachlor	0.0026 U	0.0026	0.010	ug/l	100	100	57-126	0	30
Heptachlor Epoxide	0.0023 U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030 U	0.030	0.10	ug/l	99	97	52-133	2	30
Mirex	0.085 U	0.085	0.25	ug/l					
Toxaphene	1.0 U	1.0	3.0	ug/l					
Batch number: 111230013A	Sample number(s): 6270789								
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	84	86*	35-84	2	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	92	94	51-128	2	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.15 U	0.15	0.50	ug/l	100	98	56-135	2	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					
Batch number: 111230023A	Sample number(s): 6270787-6270788								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111180035A	Sample number(s): 6270787-6270788									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	79		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	68		66-113		
Batch number: 111230003A	Sample number(s): 6270789									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	80	82	69-125	3	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	89	94	77-125	6	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	93	68-124	9	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	120	94	80-121	25	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	56	52	46-103	8	30
Batch number: 111190002A	Sample number(s): 6270789									
Diethylene glycol	10	U	10.	100	mg/l	105	115	78-126	9	20
Ethylene glycol	10	U	10.	100	mg/l	95	105	80-124	10	20
Propylene glycol	10	U	10.	100	mg/l	95	95	80-120	0	20
Batch number: 111230029A	Sample number(s): 6270789									
Ethanol	200 U		200.	1,000	ug/l	104		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		71-140		
Batch number: 111220014A	Sample number(s): 6270789									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	78	78	75-125	0	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	88	88	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	84	84	75-125	0	20
Batch number: 111185713005	Sample number(s): 6270789									
Mercury	0.000046 U		0.00004 6	0.00020	mg/l	102	87	80-120	15	20
Batch number: 111191026001A	Sample number(s): 6270787-6270788									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6270787-6270788									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6270787-6270788									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6270787-6270788									
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6270787-6270788									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6270787-6270788									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 111231848004	Sample number(s): 6270789									
Aluminum	0.0834	U	0.0834	0.200	mg/l	96	96	90-112	0	20
Boron	0.0138	U	0.0138	0.0500	mg/l	94	94	89-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	102	100	90-112	1	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	104	90-112	0	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	100	100	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	100	99	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	102	101	90-110	1	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	100	100	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	102	100	85-115	2	20
Sodium	0.433	U	0.433	1.00	mg/l	98	98	87-114	1	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	100	101	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	98	97	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	100	99	90-113	1	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	100	99	80-120	1	20
Batch number: 111246050002A	Sample number(s): 6270789									
Antimony	0.00030	U	0.00030	0.0010	mg/l	98	107	87-110	9	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	90	106	86-111	16	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	99	102	90-112	2	20
Cadmium	0.00038	J	0.00020	0.00050	mg/l	103	92	90-114	11	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	101	100	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	105	103	87-113	2	20
Copper	0.00038	U	0.00038	0.0020	mg/l	101	101	90-113	1	20
Lead	0.000054 J		0.00005 2	0.0010	mg/l	103	103	90-115	0	20
Nickel	0.00050	U	0.00050	0.0020	mg/l	103	104	90-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Silver	0.000080 U	0.00008 0	0.00050	mg/l	103	105	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	96	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	101	102	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	98	90-116	6	20
Batch number: 111246050002B	Sample number(s): 6270789								
Selenium	0.00025 U	0.00025	0.0020	mg/l	105	102	85-114	3	20
Batch number: 111246050002C	Sample number(s): 6270789								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	99	89-115	3	20
Batch number: 111246050002D	Sample number(s): 6270789								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	104	88-113	1	20
Batch number: 11118196401A	Sample number(s): 6270789								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	104	105	90-110	1	20
Batch number: 11118196601B	Sample number(s): 6270789								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	99	99	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	103	99	90-110	4	20
Batch number: 11122117101A	Sample number(s): 6270789								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	105	105	90-110	0	20
Batch number: 11127127203A	Sample number(s): 6270787-6270788								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11129621202A	Sample number(s): 6270787-6270788								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	110		90-110		
Batch number: 11132621701A	Sample number(s): 6270789								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	89	86	85-115	3	20
Batch number: 11135243202A	Sample number(s): 6270787-6270788								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11119020001A	Sample number(s): 6270789								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11123039401A	Sample number(s): 6270787-6270788								
18a pH by 9045C					100		95-105		
Batch number: 11123182101A	Sample number(s): 6270787-6270788								
32a OR Potential					99		98-102		
Batch number: 11123162401B	Sample number(s): 6270787-6270788								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111231AA	Sample number(s): 6270787 UNSPK: P272812								
Acetone	97	101	15-210	2	30				
Benzene	105	109	55-143	1	30				
Bromobenzene	86	99	43-139	11	30				
Bromochloromethane	112	124	60-137	8	30				
Bromodichloromethane	90	93	53-136	1	30				
Bromoform	81	85	38-124	3	30				
Bromomethane	103	105	42-168	0	30				
2-Butanone	75	83	37-163	8	30				
n-Butylbenzene	67	87	30-146	23	30				
sec-Butylbenzene	78	98	33-157	19	30				
tert-Butylbenzene	70	88	41-152	21	30				
Carbon Tetrachloride	98	102	45-153	1	30				
Chlorobenzene	87	95	49-135	6	30				
Chloroethane	101	105	39-152	1	30				
2-Chloroethyl Vinyl Ether	71	79	32-139	9	30				
Chloroform	100	104	61-142	1	30				
Chloromethane	104	112	51-163	4	30				
2-Chlorotoluene	82	96	42-146	14	30				
4-Chlorotoluene	79	92	39-145	13	30				
Chlorotrifluoroethene	124	127	70-130	4	30				
1,2-Dibromo-3-chloropropane	67	77	30-139	11	30				
Dibromochloromethane	87	92	51-128	3	30				
1,2-Dibromoethane	89	98	54-129	6	30				
Dibromomethane	89	94	57-130	3	30				
1,2-Dichlorobenzene	74	86	36-133	13	30				
1,3-Dichlorobenzene	74	88	34-134	15	30				
1,4-Dichlorobenzene	75	88	35-136	14	30				
Dichlorodifluoromethane	94	100	26-151	3	30				
1,1-Dichloroethane	104	108	63-142	0	30				
1,2-Dichloroethane	90	94	68-131	2	30				
1,1-Dichloroethene	120	117	61-149	5	30				
cis-1,2-Dichloroethene	100	104	60-136	2	30				
trans-1,2-Dichloroethene	105	106	59-142	2	30				
1,2-Dichloropropane	99	103	62-135	1	30				
1,3-Dichloropropane	94	100	58-129	3	30				
2,2-Dichloropropane	90	95	53-147	2	30				
1,1-Dichloropropene	99	103	54-145	2	30				
cis-1,3-Dichloropropene	83	89	51-131	5	30				
trans-1,3-Dichloropropene	79	86	49-129	6	30				
Ethylbenzene	85	94	44-141	8	30				
Freon 113	131	128	56-156	5	30				
Freon 133a	109	110	61-131	6	30				
Hexachlorobutadiene	55	76	10-155	30	30				
2-Hexanone	75	87	32-160	13	30				
Isopropylbenzene	78	89	38-144	11	30				
p-Isopropyltoluene	73	91	29-152	19	30				
Methyl Tertiary Butyl Ether	83	88	55-129	3	30				
4-Methyl-2-pentanone	77	85	46-139	7	30				
Methylene Chloride	254*	258*	61-141	1	30				
n-Propylbenzene	87	104	39-157	15	30				
Styrene	77	85	35-134	8	30				
1,1,1,2-Tetrachloroethane	88	95	52-130	5	30				
1,1,2,2-Tetrachloroethane	84	95	40-152	10	30				
Tetrachloroethene	125	135	42-149	4	30				
Toluene	98	105	50-146	4	30				
1,2,3-Trichlorobenzene	53	63	10-140	16	30				
1,2,4-Trichlorobenzene	49	61	10-136	18	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1-Trichloroethane	100	105	64-142	2	30				
1,1,2-Trichloroethane	96	99	54-139	1	30				
Trichloroethene	99	104	53-144	2	30				
Trichlorofluoromethane	109	114	47-163	2	30				
1,2,3-Trichloropropane	91	103	45-154	10	30				
1,2,4-Trimethylbenzene	79	92	37-149	13	30				
1,3,5-Trimethylbenzene	81	96	38-150	15	30				
Vinyl Chloride	105	112	50-154	4	30				
m+p-Xylene	82	92	44-137	9	30				
o-Xylene	79	88	42-137	9	30				
Batch number: 11120SLG026	Sample number(s): 6270787-6270788 UNSPK: P268204								
Acenaphthene	85	86	63-105	1	30				
Acenaphthylene	85	86	67-114	1	30				
Anthracene	86	82	60-122	6	30				
Benzo(a)anthracene	88	89	59-128	1	30				
Benzo(a)pyrene	100	101	45-138	1	30				
Benzo(b)fluoranthene	101	103	43-155	2	30				
Benzo(g,h,i)perylene	115	115	33-141	1	30				
Benzo(k)fluoranthene	104	102	42-144	4	30				
Butylbenzylphthalate	94	101	57-173	6	30				
Di-n-butylphthalate	87	86	65-148	2	30				
Chrysene	93	92	48-134	3	30				
Dibenz(a,h)anthracene	114	110	22-133	6	30				
Diethylphthalate	77	77	70-136	2	30				
Dimethylphthalate	92	92	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	100	104	39-167	4	30				
Fluoranthene	90	89	26-166	3	30				
Fluorene	87	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	113	112	21-143	2	30				
1-Methylnaphthalene	85	88	72-123	3	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	87	89	48-113	2	30				
Di-n-octylphthalate	107	109	40-192	1	30				
Phenanthrene	89	89	12-165	2	30				
Pyrene	93	91	15-153	3	30				
Batch number: 11124SLA026	Sample number(s): 6270787-6270788 UNSPK: P272812								
Aniline	66	79	35-95	19	30				
Benzidine	36	54	35-141	40*	30				
Benzoic acid	62	84	10-173	30	30				
Benzyl alcohol	91	94	67-115	3	30				
4-Bromophenyl-phenylether	87	89	67-129	2	30				
Carbazole	95	101	64-120	6	30				
4-Chloro-3-methylphenol	89	96	76-110	7	30				
4-Chloroaniline	48	63	23-95	28	30				
bis(2-Chloroethoxy)methane	87	89	75-104	2	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	82	87	55-142	5	30				
2-Chloronaphthalene	88	77	50-141	14	30				
2-Chlorophenol	93	100	73-121	7	30				
4-Chlorophenyl-phenylether	89	95	80-109	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	90	102	71-112	12	30				
1,2-Dichlorobenzene	85	90	66-108	6	30				
1,3-Dichlorobenzene	83	90	63-109	8	30				
1,4-Dichlorobenzene	84	87	70-100	3	30				
3,3'-Dichlorobenzidine	63	66	16-119	5	30				
2,4-Dichlorophenol	88	96	78-117	8	30				
2,4-Dimethylphenol	92	96	78-110	3	30				
3,5-Dimethylphenol	88	97	70-130	10	30				
4,6-Dinitro-2-methylphenol	92	96	24-116	3	30				
2,4-Dinitrophenol	80	100	20-143	21	30				
2,4-Dinitrotoluene	100	112	73-113	11	30				
2,6-Dinitrotoluene	91	99	69-123	8	30				
1,2-Diphenylhydrazine	93	98	71-129	5	30				
Hexachlorobenzene	86	98	77-114	12	30				
Hexachlorobutadiene	89	94	62-120	5	30				
Hexachlorocyclopentadiene	71	86	10-153	18	30				
Hexachloroethane	76	84	57-109	10	30				
Isophorone	92	96	73-102	4	30				
2-Methylphenol	90	91	75-111	1	30				
4-Methylphenol	93	103	71-111	11	30				
2-Nitroaniline	88	97	67-125	9	30				
3-Nitroaniline	87	98	59-122	12	30				
4-Nitroaniline	69	80	52-112	14	30				
Nitrobenzene	91	99	72-106	8	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	95	93	54-113	2	30				
N-Nitroso-di-n-propylamine	82	88	60-116	7	30				
N-Nitrosodiphenylamine	90	93	86-145	3	30				
Pentachlorophenol	86	94	28-127	8	30				
Phenol	91	98	58-126	6	30				
1,2,4-Trichlorobenzene	89	93	72-115	4	30				
2,4,5-Trichlorophenol	93	94	78-109	0	30				
2,4,6-Trichlorophenol	90	100	77-115	11	30				
Batch number: 11119A34A	Sample number(s): 6270787-6270788 UNSPK: P272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111220020A	Sample number(s): 6270787 UNSPK: P266008								
6a Perchlorate EPA 6850	107	111	80-120	4	20				
Batch number: 111230023A	Sample number(s): 6270787-6270788 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111180035A	Sample number(s): 6270787-6270788 UNSPK: P264819								
EFH (C12-C14)	107	114	49-123	6	20				
EFH (C15-C20)	237*	350*	49-123	38*	20				
EFH (C21-C30)	-12 (2)	111 (2)	49-123	6	20				
EFH (C30 - C40)	-1388 (2)	-1500 (2)	49-123	2	20				
EFH (C8-C11)	51	62	49-123	19	20				
Batch number: 111230029A	Sample number(s): 6270789 UNSPK: 6270789								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethanol	104	100	62-145	4	20				
Isopropanol	104	104	73-131	0	20				
Methanol	104	100	52-159	4	20				
Batch number: 111191026001A	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20
Strontium	101	99	75-115	1	20	16.3	16.3	0	20
Tin	84	84	80-110	0	20	3.12 J	2.96 J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040	1,040	1	20
Zirconium	98	96	75-125	1	20	0.832 U	1.16 J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6270787-6270788 UNSPK: P267473 BKG: P267473								
Mercury	78	78	65-135	3	20	0.0232 J	0.0055 J	123* (1)	20
Batch number: 11127127203A	Sample number(s): 6270787-6270788 UNSPK: P268204 BKG: P268204								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11129621202A	Sample number(s): 6270787-6270788 UNSPK: P268204 BKG: P268204								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	81		80-120			2.3	2.6	12 (1)	20
Batch number: 11135243202A	Sample number(s): 6270787-6270788 UNSPK: P264845 BKG: P264845								
3a Cr VI by EPA 7199	86		75-125			0.35 J	0.54 J	44* (1)	20
Batch number: 11123039401A	Sample number(s): 6270787-6270788 BKG: P269637								
18a pH by 9045C						8.03	8.12	1	1
Batch number: 11123182101A	Sample number(s): 6270787-6270788 BKG: P269637								
32a OR Potential						369	369	0	6
Batch number: 11123162401B	Sample number(s): 6270787-6270788 BKG: P268204								
Moisture Content by 160.3						15.0	14.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6270787	93	96	102	88
Blank	94	103	100	90
LCS	95	107	102	97
MS	93	96	106	96
MSD	94	99	107	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111191AA

	Toluene-d8
6270789	101
6270790	101
Blank	101
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111192AA

	Toluene-d8
6270787	98
Blank	98
LCS	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Surrogate Quality Control

LCSD	98					
Limits:	70-130					

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6270789	114	102	96	102
6270790	112	100	97	104
Blank	112	98	97	102
LCS	112	100	97	103
LCSD	111	103	96	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6270787	85	85	87
6270788	87	83	84
Blank	88	86	91
LCS	92	85	89
MS	90	85	88
MSD	95	84	85
Limits:	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11122WAA026

	N-Nitrosodimethylamine-d6
6270789	136
Blank	111
LCS	109
LCSD	108
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11123WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6270789	47	28	91	91	90	80
Blank	49	31	87	82	81	75
LCS	50	31	87	86	88	81
LCSD	53	32	88	91	93	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11123WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6270789	103	90	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Surrogate Quality Control

Blank	92	86	95
LCS	93	88	92
LCSD	94	89	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11124SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6270787	87	91	79	83	83	89
6270788	88	89	82	86	87	98
Blank	91	91	92	83	89	92
LCS	92	93	84	87	87	96
MS	87	88	83	86	85	90
MSD	90	89	88	89	89	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34A

	Trifluorotoluene-F
6270787	75
6270788	65
Blank	93
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11122A20A

	Trifluorotoluene-F
6270789	69
6270790	72
Blank	73
LCS	112
LCSD	114
Limits:	63-135

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111190004A

	2,4-Dichlorophenylacetic acid
6270789	85
Blank	89
LCS	100
LCSD	100
Limits:	35-144

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Surrogate Quality Control

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111190005A

	Butyraldehyde
6270789	105
Blank	100
LCS	97
LCSD	100
Limits:	45-145

Analysis Name: 16b Energetics by 8330A
Batch number: 111190007A

	2-Nitro-m-xylene
6270789	100
Blank	95
LCS	95
LCSD	95
Limits:	50-134

Analysis Name: 12b Pesticides by 8081A
Batch number: 111230012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6270789	107	118
Blank	100	75
LCS	108	80
LCSD	104	105
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111230013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6270789	96	100
Blank	99	57
LCS	93	83
LCSD	101	80
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6270787	102	106
6270788	91	92
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111180035A

	Chlorobenzene	Orthoterphenyl
6270787	59	83
6270788	40	79
Blank	82	97
LCS	79	100
MS	78	99
MSD	82	100
Limits:	37-125	47-145

Analysis Name: 21b Glycols by 8015B
Batch number: 111190002A

	Tetramethylene glycol
6270789	102
Blank	100
LCS	105
LCSD	107
Limits:	77-119

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111220014A

	n-Triacontane-d62
6270789	50
Blank	70
LCS	72
LCSD	71
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111230003A

	Chlorobenzene	Orthoterphenyl
6270789	61	89
Blank	59	84
LCS	71	90
LCSD	66	94
Limits:	28-152	52-131

Analysis Name: 19b Alcohols by 8015B
Batch number: 111230029A

	Acetone
6270789	93
Blank	102
LCS	101
MS	95
MSD	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244255
Reported: 05/20/11 at 11:07 AM

Surrogate Quality Control

Limits: 54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1244255 6270787-90

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH GRO EPA 8015B $	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER		DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-032-SA8N-SB-4.5		04.27.11	1515	SOIL	NONE	5-Encores												X	X	X										
SL-032-SA8N-SB-4.0-5.0		04.27.11	1519	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X						X									
SL-032-SA8N-SB-9.5		04.27.11	1523	SOIL	NONE	1-Encore														X										
SL-032-SA8N-SB-9.0-10.0		04.27.11	1526	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X							X									
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	12-1L amber bottles			X	X	X					X	X				X			X	X		X			Lot#A032-14
FB07-SA8N-QC-042711		04.27.11	1330	WATER	HCl	11-40mL VOA vials												X	X	X										
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	1-500mL poly		X				X	X	X																
FB07-SA8N-QC-042711		04.27.11	1330	WATER	HNO3	1-500mL poly	X																							
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	4-40mL Vials																X						X		
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	1-250mL galss																	X							
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NaOH	1-500mL poly																				X				
TB-042711		04.27.11	0800	WATER	NONE	4-40 mL vials												X	X	X										TRIP BLANK
Relinquished by: (Signature)		Date/Time 04/27/2011 / 1700		Received for Laboratory by: (Signature)																										Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)		Date/Time 4/28/11 0930		Airbill No.(s) 8695 1441 7571, 7582																										

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/29/2011
Group Number: 1244480
SDG: DE139
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA8N-SB-4.0-5.0 Soil	6271850
SL-041-SA8N-SB-9.0-10.0 Soil	6271851
EB05-SA8N-SB-042811 Water	6271852
TB-042811 Water	6271853

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	J	6.7	8.0	0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0	0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0	0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0	0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0	0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0	0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0	0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0	0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0	0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0	0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0	0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0	0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0	0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0	0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0	0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0	0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0	0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0	0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0	0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0	0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0	0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0	0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0	0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0	0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0	0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0	0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0	0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0	0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0	0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0	0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0	0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0	0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0	0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0	0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0	0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0	0.85
06192	Methylene Chloride	75-09-2	20		0.24	4.0	0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0	0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0	0.85
06192	Toluene	108-88-3	0.10	J	0.08	4.0	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0	0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0	0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0	0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0	0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0	0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0	0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	21.04
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C21-C30)	n.a.	0.54	J	0.47	1.4	1
10199	EFH (C30 - C40)	n.a.	2.5		0.47	1.4	1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		5.75	22.9	1
07914	Boron	7440-42-8	14.6		1.02	5.72	1
01650	Calcium	7440-70-2	17,300		7.01	22.9	1
01654	Iron	7439-89-6	36,800		26.9	114	5
01656	Lithium	7439-93-2	27.3		0.25	2.3	1
01657	Magnesium	7439-95-4	7,780		2.90	11.4	1
06958	Manganese	7439-96-5	461		0.0892	0.572	1
10145	Phosphorus	7723-14-0	307		0.640	11.4	1
01662	Potassium	7440-09-7	4,370		20.6	57.2	1
01667	Sodium	7440-23-5	154		42.7	114	1
07968	Strontium	7440-24-6	50.5		0.0709	0.572	1
06969	Tin	7440-31-5	3.17	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,320		0.435	1.14	1
10146	Zirconium	7440-67-7	2.36	J	0.961	5.72	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147 J	0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.78	0.0915	0.457	2
06126	Barium	7440-39-3	204	0.124	0.457	2
06127	Beryllium	7440-41-7	1.22	0.0183	0.114	2
06128	Cadmium	7440-43-9	0.278	0.0457	0.114	2
06131	Chromium	7440-47-3	39.5	0.137	0.457	2
06132	Cobalt	7440-48-4	15.5	0.0229	0.114	2
06133	Copper	7440-50-8	21.1	0.0755	0.457	2
06135	Lead	7439-92-1	12.8	0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.302	0.0572	0.114	2
06139	Nickel	7440-02-0	28.4	0.114	0.457	2
06141	Selenium	7782-49-2	0.130 J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0693 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.470	0.0343	0.114	2
06148	Vanadium	7440-62-2	74.0	0.0252	0.114	2
06149	Zinc	7440-66-6	89.1	0.640	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103 J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	393	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.87	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 17:14	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111192AA	04/30/2011 00:43	Sara E Johnson	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201111924274	04/29/2011 17:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201111924274	04/29/2011 17:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201111924274	04/29/2011 17:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201111924274	04/29/2011 17:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 19:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 16:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 18:06	Elizabeth J Marin	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111924274	04/29/2011 17:21	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 06:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 22:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111195708001	05/05/2011 10:20	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-4.0-5.0

LLI Sample # SW 6271850
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:09

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0414 SDG#: DE139-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111195708001	05/05/2011 03:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111191026001D	05/03/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111191026001A	05/03/2011 16:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111191026001C	05/03/2011 16:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111191026001B	05/03/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111191026001A	05/03/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111195711001	05/03/2011 05:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111195708001	05/02/2011 08:30	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111191026001	05/02/2011 08:52	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111195711001	05/02/2011 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11136621201A	05/17/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 20:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/17/2011 01:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:19

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0419 SDG#: DE139-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:19

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0419 SDG#: DE139-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	20.76
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:19

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0419 SDG#: DE139-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4	1
10199	EFH (C30 - C40)	n.a.	1.7		0.47	1.4	1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		5.82	23.1	1
07914	Boron	7440-42-8	4.58	J	1.03	5.78	1
01650	Calcium	7440-70-2	50,100		7.09	23.1	1
01654	Iron	7439-89-6	28,200		5.45	23.1	1
01656	Lithium	7439-93-2	26.2		0.25	2.3	1
01657	Magnesium	7439-95-4	5,970		2.94	11.6	1
06958	Manganese	7439-96-5	201		0.0902	0.578	1
10145	Phosphorus	7723-14-0	140		0.648	11.6	1
01662	Potassium	7440-09-7	1,950		20.8	57.8	1
01667	Sodium	7440-23-5	310		43.1	116	1
07968	Strontium	7440-24-6	56.8		0.0717	0.578	1
06969	Tin	7440-31-5	2.91	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,020		0.440	1.16	1
10146	Zirconium	7440-67-7	5.40	J	0.972	5.78	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.222	J	0.0694	0.231	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.01		0.0925	0.463	2
06126	Barium	7440-39-3	123		0.125	0.463	2
06127	Beryllium	7440-41-7	0.872		0.0185	0.116	2
06128	Cadmium	7440-43-9	0.186		0.0463	0.116	2
06131	Chromium	7440-47-3	31.5		0.139	0.463	2
06132	Cobalt	7440-48-4	12.6		0.0231	0.116	2
06133	Copper	7440-50-8	14.4		0.0763	0.463	2
06135	Lead	7439-92-1	8.50		0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.186		0.0578	0.116	2
06139	Nickel	7440-02-0	18.8		0.116	0.463	2
06141	Selenium	7782-49-2	0.0463	U	0.0463	0.463	2
06142	Silver	7440-22-4	0.0427	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.298		0.0347	0.116	2
06148	Vanadium	7440-62-2	56.3		0.0254	0.116	2
06149	Zinc	7440-66-6	47.1		0.648	3.47	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0419 SDG#: DE139-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.8		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	369		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 19:47	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11120SLG026	05/05/2011 17:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11120SLG026	05/02/2011 08:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34A	04/30/2011 18:43	Elizabeth J Marin	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201111924274	04/29/2011 17:23	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 07:17	Richard A Shober	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0419 SDG#: DE139-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111190003A	05/03/2011 23:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111190003A	04/30/2011 07:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 09:51	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203A	05/10/2011 20:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11135243202A	05/17/2011 02:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA8N-SB-9.0-10.0

LLI Sample # SW 6271851
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 12:19

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0419 SDG#: DE139-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203A	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101A	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401A	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11135243202A	05/15/2011 09:40	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	62	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	10	U	10	31	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049	1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049	1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049	1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049	1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98	1
10137	Di-n-butylphthalate	84-74-2	0.35	J	0.049	0.98	1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049	1
10137	Diethylphthalate	84-66-2	0.17	J	0.049	0.98	1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.13	J	0.049	0.98	1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049	1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049	1
10137	1-Methylnaphthalene	90-12-0	0.0098	U	0.0098	0.049	1

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.0098 U	0.0098	0.049	1
10137	Naphthalene	91-20-3	0.029 U	0.029	0.049	1
10137	N-Nitrosodimethylamine	62-75-9	0.0098 U	0.0098	0.049	1
10137	Di-n-octylphthalate	117-84-0	0.049 U	0.049	0.98	1
10137	Phenanthrene	85-01-8	0.0098 U	0.0098	0.049	1
10137	Pyrene	129-00-0	0.0098 U	0.0098	0.049	1
	The following compounds were detected in the method blank at the respective concentrations of:					
	diethylphthalate .11 ug/l					
	di-n-butylphthalate .089 ug/l					
	bis(2-ethylhexyl)phthalate .056 ug/l					
	These blank values were not subtracted from the analytical results.					
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.099 U	0.099	0.50	1
10227	Aroclor 5442	12642-23-8	0.099 U	0.099	0.50	1
10227	Aroclor 5460	11126-42-4	0.099 U	0.099	0.50	1
10227	PCB-1016	12674-11-2	0.099 U	0.099	0.50	1
10227	PCB-1221	11104-28-2	0.099 U	0.099	0.50	1
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.50	1
10227	PCB-1242	53469-21-9	0.099 U	0.099	0.50	1
10227	PCB-1248	12672-29-6	0.099 U	0.099	0.50	1
10227	PCB-1254	11097-69-1	0.099 U	0.099	0.50	1
10227	PCB-1260	11096-82-5	0.15 U	0.15	0.50	1
10227	PCB-1262	37324-23-5	0.20 U	0.20	0.50	1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.50	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.0	0.010	0.010	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111192AA	04/29/2011 17:14	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011 12:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111191AA	04/29/2011 12:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111192AA	04/29/2011 17:14	Nicholas R Rossi	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11123WAA026	05/04/2011 10:12	Brian K Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: EB05-SA8N-SB-042811 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA8N-SB-042811

LLI Sample # WW 6271852
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 14:30

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE139-03EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11123WAE026	05/05/2011 10:33	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11123WAA026	05/03/2011 16:30	JoElla L Rice	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11123WAE026	05/03/2011 21:20	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111230013A	05/06/2011 02:41	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111230013A	05/04/2011 05:00	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
08014	Boron	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01754	Iron	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01756	Lithium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
07058	Manganese	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
10143	Phosphorus	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01762	Potassium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
01767	Sodium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
08068	Strontium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
07069	Tin	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
07070	Titanium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
10144	Zirconium	SW-846 6010B	1	111231848004	05/07/2011 07:22	Damary Valentin	1
06024	Antimony	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111246050002D	05/06/2011 14:00	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111246050002C	05/06/2011 14:00	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111246050002B	05/06/2011 14:00	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111246050002A	05/06/2011 14:00	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111305713002	05/11/2011 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111231848004	05/04/2011 09:03	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111246050002	05/05/2011 09:38	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111305713002	05/10/2011 16:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11123196601C	05/04/2011 04:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11132621701A	05/12/2011 14:52	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11119658401A	04/29/2011 12:00	Venia B McFadden	1
00200	18b pH by 9040B	SW-846 9040B	1	11119020001A	04/29/2011 20:50	Luz M Groff	1

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Analysis Report

Sample Description: TB-042811 Water
SSFL Area IV Collocated Soil Sampling
TB-042811

LLI Sample # WW 6271853
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 16:00

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB428 SDG#: DE139-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-042811 Water
SSFL Area IV Collocated Soil Sampling
TB-042811

LLI Sample # WW 6271853
LLI Group # 1244480
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/28/2011 16:00

Submitted: 04/29/2011 09:00
Reported: 05/20/2011 11:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB428 SDG#: DE139-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111192AA	04/29/2011 17:35	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111191AA	04/29/2011 12:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111191AA	04/29/2011 12:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111192AA	04/29/2011 17:35	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11122A20A	05/02/2011 18:42	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11122A20A	05/02/2011 18:42	Laura M Krieger	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111231AA	Sample number(s): 6271850									
Acetone	9.9		6.7	8.0	ug/kg	103		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	123		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	96		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	100		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	114		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	93		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	97		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	116		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	104		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	83		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	116		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	104		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	104		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	98		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	102		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	108		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E111191AA	Sample number(s): 6271852-6271853									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105	113	80-123	8	30
Batch number: E111192AA	Sample number(s): 6271850									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	109	115	70-130	5	30
Batch number: Y111192AA	Sample number(s): 6271852-6271853									
Acetone	6	U	6.	20	ug/l	117	102	49-234	14	30
Benzene	0.5	U	0.5	5	ug/l	93	93	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	99	101	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	108	109	80-120	1	30
Bromoform	1	U	1.	5	ug/l	97	94	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	117	118	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	97	94	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	90	90	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	92	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	119	116	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	106	110	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	96	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	110	109	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	121	125	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	90	89	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	90	92	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	88	88	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	92	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	97	95	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	104	106	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	122*	121*	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	95	79-120	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	124	126	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	102	97	74-123	5	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	93	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	90	86	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	91	91	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	93	91	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	118	116	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	100	100	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	100	99	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	94	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	104	96	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	131*	123*	77-120	7	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	92	89	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	99	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	96	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	101	98	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	92	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	87	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	101	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	81	81	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	101	101	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	88	88	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	91	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	102	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	90	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	103	103	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	124	119	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	94	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	97	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	118	119	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	92	80-120	1	30
Batch number: 11120SLG026	Sample number(s): 6271850-6271851									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	99		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		56-121		
Batch number: 11123WAA026	Sample number(s): 6271852									
Aniline	1	U	1.	5	ug/l	75	82	49-101	9	30
Benzidine	20	U	20.	60	ug/l	76	85	34-117	11	30
Benzoic acid	6	U	6.	15	ug/l	35	36	10-69	4	30
Benzyl alcohol	5	U	5.	15	ug/l	70	73	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	100	82-117	5	30
Carbazole	1	U	1.	5	ug/l	89	92	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	88	91	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	72	83	42-124	14	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	98	74-124	7	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	87	92	77-108	6	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	84	90	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	98	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	86	88	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	97	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	92	95	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	78	86	55-118	9	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	79	84	50-119	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	79	85	53-119	7	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	66	79	49-111	17	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	93	94	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	92	94	72-110	2	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	90	92	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	112	115	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	113	118	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	92	95	81-115	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	94	97	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	102	105	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	101	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	87	95	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	93	104	36-118	11	30
Hexachloroethane	1	U	1.	5	ug/l	77	84	52-113	9	30
Isophorone	1	U	1.	5	ug/l	92	96	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	72	74	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	68	69	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	90	93	83-116	4	30
3-Nitroaniline	1	U	1.	5	ug/l	84	88	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	71	74	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	94	99	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	94	97	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	40	36	16-78	10	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	90	69-110	4	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	93	95	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	95	97	53-110	2	30
Phenol	1	U	1.	5	ug/l	37	38	21-67	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	94	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	92	93	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	100	81-113	3	30
Batch number: 11123WAE026	Sample number(s): 6271852									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	0.010	U	0.010	0.050	ug/l	93	94	74-109	0	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	92	93	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	92	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	95	94	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	107	106	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	114	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	122	119	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	109	107	59-130	2	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	90	93	40-138	4	30
Di-n-butylphthalate	0.089	J	0.050	1.0	ug/l	92	93	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	98	99	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	116	113	55-134	2	30
Diethylphthalate	0.11	J	0.050	1.0	ug/l	84	84	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	82	82	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.056	J	0.050	1.0	ug/l	99	104	57-154	4	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	94	93	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	96	97	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	118	115	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	92	71-117	2	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	83	81	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	91	88	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	55	58	36-89	5	30
Di-n-octylphthalate	0.24	J	0.050	1.0	ug/l	111	112	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	93	91	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	101	99	69-118	2	30
Batch number: 11124SLA026	Sample number(s): 6271850-6271851									
Aniline	170 U		170.	500	ug/kg	72		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	93		79-117		
Carbazole	33	U	33.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	86		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	76		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Dibenzofuran	33	U	33.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	91		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	96		77-111		
Hexachlorobenzene	33	U	33.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	86		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Isophorone	33	U	33.	170	ug/kg	91		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	93		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	98		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	94		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	92		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	95		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	92		51-117		
Phenol	33	U	33.	170	ug/kg	96		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11119A34A	Sample number(s): 6271850-6271851									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11122A20A	Sample number(s): 6271853									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111230013A	Sample number(s): 6271852									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	84	86*	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	94	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	100	98	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111230023A	Sample number(s): 6271850-6271851									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111190003A	Sample number(s): 6271850-6271851									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	69		66-113		
Batch number: 111191026001A	Sample number(s): 6271850									
Antimony	0.0588	U	0.0588	0.196	mg/kg	68		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	106		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	106		86-111		
Cadmium	0.0392	U	0.0392	0.0980	mg/kg	112		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	110		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	114		82-118		
Copper	0.0910	J	0.0647	0.392	mg/kg	108		83-110		
Lead	0.0102	U	0.0102	0.196	mg/kg	102		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	107		81-110		
Silver	0.0118	U	0.0118	0.0980	mg/kg	108		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	106		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	102		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	106		81-112		
Batch number: 111191026001B	Sample number(s): 6271850									
Selenium	0.0392	U	0.0392	0.392	mg/kg	107		83-111		
Batch number: 111191026001C	Sample number(s): 6271850									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	117		78-122		
Batch number: 111191026001D	Sample number(s): 6271850									
Barium	0.106	U	0.106	0.392	mg/kg	106		81-111		
Batch number: 111195708001	Sample number(s): 6271850									
Aluminum	5.87	J	4.98	19.8	mg/kg	97		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	97		78-110		
Calcium	132		6.07	19.8	mg/kg	103		88-110		
Iron	5.63	J	4.66	19.8	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.51	U	2.51	9.90	mg/kg	102		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	100		89-112		
Phosphorus	1.51	J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	101		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	103		87-110		
Strontium	0.195	J	0.0614	0.495	mg/kg	102		86-110		
Tin	1.76	J	0.990	9.90	mg/kg	99		90-114		
Titanium	0.376	U	0.376	0.990	mg/kg	86		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	100		80-120		
Batch number: 111195711001	Sample number(s): 6271850									
Mercury	0.0140	J	0.0027	0.0932	mg/kg	99		88-123		
Batch number: 111231026001A	Sample number(s): 6271851									
Antimony	0.0600	U	0.0600	0.200	mg/kg	108		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	99		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	99		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chromium	0.120 U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.142 J	0.0660	0.400	mg/kg	99		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	93		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	94		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	97		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	94		83-110		
Vanadium	0.0876 J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111231026001B	Sample number(s): 6271851								
Selenium	0.0400 U	0.0400	0.400	mg/kg	103		83-111		
Batch number: 111231026001C	Sample number(s): 6271851								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 111231026001D	Sample number(s): 6271851								
Barium	0.108 U	0.108	0.400	mg/kg	96		81-111		
Batch number: 111231848004	Sample number(s): 6271852								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	96	90-112	0	20
Boron	0.0138 U	0.0138	0.0500	mg/l	94	94	89-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	100	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	104	104	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	99	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	102	101	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	100	100	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	102	100	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	98	98	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	101	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	97	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	99	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	100	99	80-120	1	20
Batch number: 111235708001	Sample number(s): 6271851								
Aluminum	5.03 U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	10.6 J	6.13	20.0	mg/kg	104		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.43 J	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.224 J	0.0780	0.500	mg/kg	108		89-112		
Phosphorus	1.05 J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3 U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	107		86-110		
Tin	1.32 J	1.00	10.0	mg/kg	106		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	101		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	100		80-120		
Batch number: 111235711001	Sample number(s): 6271851								
Mercury	0.0027 U	0.0027	0.0948	mg/kg	93		88-123		
Batch number: 111246050002A	Sample number(s): 6271852								
Antimony	0.00030 U	0.00030	0.0010	mg/l	98	107	87-110	9	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	90	106	86-111	16	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	99	102	90-112	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.00038 J	0.00020	0.00050	mg/l	103	92	90-114	11	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	101	100	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	105	103	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	101	90-113	1	20
Lead	0.000054 J	0.00005 2	0.0010	mg/l	103	103	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	104	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	103	105	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	96	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	101	102	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	98	90-116	6	20
Batch number: 111246050002B	Sample number(s): 6271852								
Selenium	0.00025 U	0.00025	0.0020	mg/l	105	102	85-114	3	20
Batch number: 111246050002C	Sample number(s): 6271852								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	99	89-115	3	20
Batch number: 111246050002D	Sample number(s): 6271852								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	104	88-113	1	20
Batch number: 111305713002	Sample number(s): 6271852								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	86	88	80-120	3	20
Batch number: 11119658401A	Sample number(s): 6271852								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11123196601C	Sample number(s): 6271852								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	95	93	90-110	1	20
Batch number: 11127127203A	Sample number(s): 6271850-6271851								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11132621701A	Sample number(s): 6271852								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	89	86	85-115	3	20
Batch number: 11135243202A	Sample number(s): 6271850-6271851								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11136621201A	Sample number(s): 6271850-6271851								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	97		90-110		
Batch number: 11119020001A	Sample number(s): 6271852								
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11123039401A	Sample number(s): 6271850-6271851								
18a pH by 9045C					100		95-105		
Batch number: 11123182101A	Sample number(s): 6271850-6271851								
32a OR Potential					99		98-102		
Batch number: 11123162401B	Sample number(s): 6271850-6271851								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111231AA	Sample number(s): 6271850 UNSPK: P272812								
Acetone	97	101	15-210	2	30				
Benzene	105	109	55-143	1	30				
Bromobenzene	86	99	43-139	11	30				
Bromochloromethane	112	124	60-137	8	30				
Bromodichloromethane	90	93	53-136	1	30				
Bromoform	81	85	38-124	3	30				
Bromomethane	103	105	42-168	0	30				
2-Butanone	75	83	37-163	8	30				
n-Butylbenzene	67	87	30-146	23	30				
sec-Butylbenzene	78	98	33-157	19	30				
tert-Butylbenzene	70	88	41-152	21	30				
Carbon Tetrachloride	98	102	45-153	1	30				
Chlorobenzene	87	95	49-135	6	30				
Chloroethane	101	105	39-152	1	30				
2-Chloroethyl Vinyl Ether	71	79	32-139	9	30				
Chloroform	100	104	61-142	1	30				
Chloromethane	104	112	51-163	4	30				
2-Chlorotoluene	82	96	42-146	14	30				
4-Chlorotoluene	79	92	39-145	13	30				
Chlorotrifluoroethene	124	127	70-130	4	30				
1,2-Dibromo-3-chloropropane	67	77	30-139	11	30				
Dibromochloromethane	87	92	51-128	3	30				
1,2-Dibromoethane	89	98	54-129	6	30				
Dibromomethane	89	94	57-130	3	30				
1,2-Dichlorobenzene	74	86	36-133	13	30				
1,3-Dichlorobenzene	74	88	34-134	15	30				
1,4-Dichlorobenzene	75	88	35-136	14	30				
Dichlorodifluoromethane	94	100	26-151	3	30				
1,1-Dichloroethane	104	108	63-142	0	30				
1,2-Dichloroethane	90	94	68-131	2	30				
1,1-Dichloroethene	120	117	61-149	5	30				
cis-1,2-Dichloroethene	100	104	60-136	2	30				
trans-1,2-Dichloroethene	105	106	59-142	2	30				
1,2-Dichloropropane	99	103	62-135	1	30				
1,3-Dichloropropane	94	100	58-129	3	30				
2,2-Dichloropropane	90	95	53-147	2	30				
1,1-Dichloropropene	99	103	54-145	2	30				
cis-1,3-Dichloropropene	83	89	51-131	5	30				
trans-1,3-Dichloropropene	79	86	49-129	6	30				
Ethylbenzene	85	94	44-141	8	30				
Freon 113	131	128	56-156	5	30				
Freon 133a	109	110	61-131	6	30				
Hexachlorobutadiene	55	76	10-155	30	30				
2-Hexanone	75	87	32-160	13	30				
Isopropylbenzene	78	89	38-144	11	30				
p-Isopropyltoluene	73	91	29-152	19	30				
Methyl Tertiary Butyl Ether	83	88	55-129	3	30				
4-Methyl-2-pentanone	77	85	46-139	7	30				
Methylene Chloride	254*	258*	61-141	1	30				

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Quality Control Summary

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Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
n-Propylbenzene	87	104	39-157	15	30				
Styrene	77	85	35-134	8	30				
1,1,1,2-Tetrachloroethane	88	95	52-130	5	30				
1,1,2,2-Tetrachloroethane	84	95	40-152	10	30				
Tetrachloroethene	125	135	42-149	4	30				
Toluene	98	105	50-146	4	30				
1,2,3-Trichlorobenzene	53	63	10-140	16	30				
1,2,4-Trichlorobenzene	49	61	10-136	18	30				
1,1,1-Trichloroethane	100	105	64-142	2	30				
1,1,2-Trichloroethane	96	99	54-139	1	30				
Trichloroethene	99	104	53-144	2	30				
Trichlorofluoromethane	109	114	47-163	2	30				
1,2,3-Trichloropropane	91	103	45-154	10	30				
1,2,4-Trimethylbenzene	79	92	37-149	13	30				
1,3,5-Trimethylbenzene	81	96	38-150	15	30				
Vinyl Chloride	105	112	50-154	4	30				
m+p-Xylene	82	92	44-137	9	30				
o-Xylene	79	88	42-137	9	30				
Batch number: 11120SLG026	Sample number(s): 6271850-6271851 UNSPK: P268204								
Acenaphthene	85	86	63-105	1	30				
Acenaphthylene	85	86	67-114	1	30				
Anthracene	86	82	60-122	6	30				
Benzo(a)anthracene	88	89	59-128	1	30				
Benzo(a)pyrene	100	101	45-138	1	30				
Benzo(b)fluoranthene	101	103	43-155	2	30				
Benzo(g,h,i)perylene	115	115	33-141	1	30				
Benzo(k)fluoranthene	104	102	42-144	4	30				
Butylbenzylphthalate	94	101	57-173	6	30				
Di-n-butylphthalate	87	86	65-148	2	30				
Chrysene	93	92	48-134	3	30				
Dibenz(a,h)anthracene	114	110	22-133	6	30				
Diethylphthalate	77	77	70-136	2	30				
Dimethylphthalate	92	92	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	100	104	39-167	4	30				
Fluoranthene	90	89	26-166	3	30				
Fluorene	87	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	113	112	21-143	2	30				
1-Methylnaphthalene	85	88	72-123	3	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	81	85	61-102	4	30				
N-Nitrosodimethylamine	87	89	48-113	2	30				
Di-n-octylphthalate	107	109	40-192	1	30				
Phenanthrene	89	89	12-165	2	30				
Pyrene	93	91	15-153	3	30				
Batch number: 11124SLA026	Sample number(s): 6271850-6271851 UNSPK: P272812								
Aniline	66	79	35-95	19	30				
Benzidine	36	54	35-141	40*	30				
Benzoic acid	62	84	10-173	30	30				
Benzyl alcohol	91	94	67-115	3	30				
4-Bromophenyl-phenylether	87	89	67-129	2	30				
Carbazole	95	101	64-120	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	89	96	76-110	7	30				
4-Chloroaniline	48	63	23-95	28	30				
bis(2-Chloroethoxy)methane	87	89	75-104	2	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	82	87	55-142	5	30				
2-Chloronaphthalene	88	77	50-141	14	30				
2-Chlorophenol	93	100	73-121	7	30				
4-Chlorophenyl-phenylether	89	95	80-109	6	30				
Dibenzofuran	90	102	71-112	12	30				
1,2-Dichlorobenzene	85	90	66-108	6	30				
1,3-Dichlorobenzene	83	90	63-109	8	30				
1,4-Dichlorobenzene	84	87	70-100	3	30				
3,3'-Dichlorobenzidine	63	66	16-119	5	30				
2,4-Dichlorophenol	88	96	78-117	8	30				
2,4-Dimethylphenol	92	96	78-110	3	30				
3,5-Dimethylphenol	88	97	70-130	10	30				
4,6-Dinitro-2-methylphenol	92	96	24-116	3	30				
2,4-Dinitrophenol	80	100	20-143	21	30				
2,4-Dinitrotoluene	100	112	73-113	11	30				
2,6-Dinitrotoluene	91	99	69-123	8	30				
1,2-Diphenylhydrazine	93	98	71-129	5	30				
Hexachlorobenzene	86	98	77-114	12	30				
Hexachlorobutadiene	89	94	62-120	5	30				
Hexachlorocyclopentadiene	71	86	10-153	18	30				
Hexachloroethane	76	84	57-109	10	30				
Isophorone	92	96	73-102	4	30				
2-Methylphenol	90	91	75-111	1	30				
4-Methylphenol	93	103	71-111	11	30				
2-Nitroaniline	88	97	67-125	9	30				
3-Nitroaniline	87	98	59-122	12	30				
4-Nitroaniline	69	80	52-112	14	30				
Nitrobenzene	91	99	72-106	8	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	95	93	54-113	2	30				
N-Nitroso-di-n-propylamine	82	88	60-116	7	30				
N-Nitrosodiphenylamine	90	93	86-145	3	30				
Pentachlorophenol	86	94	28-127	8	30				
Phenol	91	98	58-126	6	30				
1,2,4-Trichlorobenzene	89	93	72-115	4	30				
2,4,5-Trichlorophenol	93	94	78-109	0	30				
2,4,6-Trichlorophenol	90	100	77-115	11	30				
Batch number: 11119A34A	Sample number(s): 6271850-6271851 UNSPK: P272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111230023A	Sample number(s): 6271850-6271851 UNSPK: P272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				
Batch number: 111190003A	Sample number(s): 6271850-6271851 UNSPK: P269636								
EFH (C12-C14)	82	80	49-123	3	20				
EFH (C15-C20)	101	100	49-123	1	20				
EFH (C21-C30)	112	91	49-123	21*	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	86	77	49-123	7	20				
EFH (C8-C11)	56	52	49-123	7	20				
Batch number: 111191026001A	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Antimony	27*	36*	75-125	28*	20	0.0588 U	0.0600 U	0 (1)	20
Arsenic	70*	184*	75-125	25*	20	6.62	6.04	9	20
Beryllium	81	124	75-125	22*	20	0.771	0.726	6	20
Cadmium	104	135*	75-125	24*	20	0.0836 J	0.0728 J	14 (1)	20
Chromium	66*	122	75-125	18	20	21.0	20.4	3	20
Cobalt	102	133*	75-125	23*	20	7.22	6.99	3	20
Copper	86	137*	75-125	24*	20	10.2	9.82	4	20
Lead	68*	148*	75-125	24*	20	6.71	6.28	7	20
Nickel	83	153*	75-125	25*	20	16.5	16.2	2	20
Silver	103	127*	75-125	21*	20	0.0360 J	0.0356 J	1 (1)	20
Thallium	84	119	75-125	20	20	0.282	0.247	13 (1)	20
Vanadium	59*	153*	75-125	20	20	37.2	36.3	2	20
Zinc	39 (2)	209 (2)	75-125	24*	20	56.9	55.6	2	20
Batch number: 111191026001B	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Selenium	100	117	75-125	15	20	0.120 J	0.0957 J	22* (1)	20
Batch number: 111191026001C	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Molybdenum	92	123	75-125	28*	20	0.474	0.491	3 (1)	20
Batch number: 111191026001D	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Barium	-1 (2)	316 (2)	75-125	29*	20	91.0	87.2	4	20
Batch number: 111195708001	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Aluminum	2399 (2)	2118 (2)	75-125	2	20	19,600	18,900	4	20
Boron	95	94	84-115	0	20	7.34	7.30	1 (1)	20
Calcium	184 (2)	139 (2)	75-125	6	20	2,460	2,490	1	20
Iron	2247 (2)	1156 (2)	75-125	4	20	22,200	22,600	2	20
Lithium	103	99	82-114	2	20	29.2	29.0	1	20
Magnesium	360 (2)	221 (2)	75-125	5	20	4,870	4,900	1	20
Manganese	67 (2)	95 (2)	75-125	5	20	260	269	3	20
Phosphorus	100	109	75-125	3	20	276	292	6	20
Potassium	122	137*	75-125	4	20	2,380	2,430	2	20
Sodium	97	95	75-125	0	20	83.1 J	84.0 J	1 (1)	20
Strontium	101	99	75-115	1	20	16.3	16.3	0	20
Tin	84	84	80-110	0	20	3.12 J	2.96 J	5 (1)	20
Titanium	237 (2)	231 (2)	75-125	0	20	1,040	1,040	1	20
Zirconium	98	96	75-125	1	20	0.832 U	1.16 J	200* (1)	20
Batch number: 111195711001	Sample number(s): 6271850 UNSPK: P267473 BKG: P267473								
Mercury	78	78	65-135	3	20	0.0232 J	0.0055 J	123* (1)	20
Batch number: 111231026001A	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Antimony	43*	43*	75-125	1	20	0.253	0.186 J	30* (1)	20
Arsenic	78	94	75-125	5	20	5.00	5.69	13	20
Beryllium	73*	84	75-125	7	20	0.668	0.695	4	20
Cadmium	80	85	75-125	6	20	0.233	0.254	9 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	87	87	75-125	0	20	26.2	27.4	5	20
Cobalt	87	97	75-125	10	20	8.95	9.50	6	20
Copper	84	108	75-125	11	20	13.8	14.8	7	20
Lead	90	101	75-125	3	20	7.77	8.12	4	20
Nickel	79	118	75-125	15	20	17.5	19.7	12	20
Silver	85	96	75-125	13	20	0.0232 J	0.0475 J	69* (1)	20
Thallium	84	107	75-125	15	20	0.255	0.329	25* (1)	20
Vanadium	121 (2)	126 (2)	75-125	1	20	46.4	49.6	7	20
Zinc	35 (2)	121 (2)	75-125	13	20	61.0	59.3	3	20
Batch number: 111231026001B	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Selenium	74*	89	75-125	17	20	0.210 J	0.146 J	36* (1)	20
Batch number: 111231026001C	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Molybdenum	85	96	75-125	13	20	0.300	0.339	12 (1)	20
Batch number: 111231026001D	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Barium	90 (2)	120 (2)	75-125	3	20	108	110	1	20
Batch number: 111235708001	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Aluminum	3417 (2)	2582 (2)	75-125	5	20	26,700	27,400	3	20
Boron	103	101	84-115	2	20	6.31	7.22	14 (1)	20
Calcium	998 (2)	577 (2)	75-125	14	20	8,650	11,300	27*	20
Iron	1649 (2)	704 (2)	75-125	3	20	31,700	30,400	4	20
Lithium	103	100	82-114	2	20	24.0	24.5	2	20
Magnesium	390 (2)	243 (2)	75-125	4	20	6,590	6,590	0	20
Manganese	49 (2)	84 (2)	75-125	4	20	412	400	3	20
Phosphorus	86	96	75-125	3	20	297	281	6	20
Potassium	144 (2)	137 (2)	75-125	1	20	4,390	4,300	2	20
Sodium	95	93	75-125	1	20	94.3 J	92.6 J	2 (1)	20
Strontium	105	100	75-115	3	20	38.0	39.9	5	20
Tin	90	90	80-110	0	20	2.49 J	2.59 J	4 (1)	20
Titanium	554 (2)	434 (2)	75-125	8	20	1,070	1,200	11	20
Zirconium	95	93	75-125	2	20	5.40	6.13	13 (1)	20
Batch number: 111235711001	Sample number(s): 6271851 UNSPK: P272812 BKG: P272812								
Mercury	98	94	80-120	6	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 11127127203A	Sample number(s): 6271850-6271851 UNSPK: P268204 BKG: P268204								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11135243202A	Sample number(s): 6271850-6271851 UNSPK: P264845 BKG: P264845								
3a Cr VI by EPA 7199	86		75-125			0.35 J	0.54 J	44* (1)	20
Batch number: 11136621201A	Sample number(s): 6271850-6271851 UNSPK: 6271850 BKG: 6271850								
11a Anions by 300.0 - Fluoride	75*		80-120			1.3	2.9	73* (1)	20
Batch number: 11123039401A	Sample number(s): 6271850-6271851 BKG: P269637								
18a pH by 9045C						8.03	8.12	1	1
Batch number: 11123182101A	Sample number(s): 6271850-6271851 BKG: P269637								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
32a OR Potential						369	369	0	6
Batch number: 11123162401B Sample number(s): 6271850-6271851 BKG: P268204									
Moisture Content by 160.3						15.0	14.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6271850	95	99	103	88
Blank	94	103	100	90
LCS	95	107	102	97
MS	93	96	106	96
MSD	94	99	107	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111191AA

	Toluene-d8
6271852	101
6271853	101
Blank	101
LCS	100
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111192AA

	Toluene-d8
6271850	98
Blank	98
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6271852	114	102	96	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244480
Reported: 05/20/11 at 11:31 AM

Surrogate Quality Control

6271853	116	99	96	101
Blank	112	98	97	102
LCS	112	100	97	103
LCSD	111	103	96	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11120SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6271850	89	86	83
6271851	89	82	86
Blank	88	86	91
LCS	92	85	89
MS	90	85	88
MSD	95	84	85
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11123WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6271852	45	27	87	87	86	77
Blank	49	31	87	82	81	75
LCS	50	31	87	86	88	81
LCSD	53	32	88	91	93	86
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11123WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6271852	106	90	98
Blank	92	86	95
LCS	93	88	92
LCSD	94	89	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11124SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6271850	90	88	82	86	87	94
6271851	88	88	85	82	85	92
Blank	91	91	92	83	89	92
LCS	92	93	84	87	87	96
MS	87	88	83	86	85	90
MSD	90	89	88	89	89	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34A

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Quality Control Summary

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Reported: 05/20/11 at 11:31 AM

Surrogate Quality Control

	Trifluorotoluene-F
6271850	75
6271851	75
Blank	93
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11122A20A

	Trifluorotoluene-F
6271853	71
Blank	73
LCS	112
LCSD	114
Limits:	63-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111230013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6271852	98	95
Blank	99	57
LCS	93	83
LCSD	101	80
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6271850	114	113
6271851	94	99
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111190003A

	Chlorobenzene	Orthoterphenyl
6271850	67	83
6271851	73	89
Blank	79	96
LCS	78	96
MS	71	94

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Quality Control Summary

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Reported: 05/20/11 at 11:31 AM

Surrogate Quality Control

MSD	78	97
Limits:	37-125	47-145

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13013 1244480 6271850-53

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 16138	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TRH-GRO EPA 8015B $	**TRH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-041-SA8N-SB-4.5	04.28.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA8N-SB-4.0-5.0	04.28.11	1209	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-041-SA8N-SB-9.5	04.28.11	1215	SOIL	NONE	1-Encore												X										
SL-041-SA8N-SB-9.0-10.0	04.28.11	1219	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
EB05-SA5B-SB-042811	04.28.11	1430	WATER	HCl	6-40 mL vials										X	X											
EB05-SA5B-SB-042811	04.28.11	1430	WATER	NONE	5-1 liter ambers			X	X	X																	
EB05-SA5B-SB-042811	04.28.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB05-SA5B-SB-042811	04.28.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
TB-042811	04.28.11	1600	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/28/2011 / 1700		Received for Laboratory by: (Signature) 4/29/11 0900																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1441 7593																								

Nicole Maljovec A# 13013 Grp# 1244480 S# 627850-53

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, April 29, 2011 11:51 AM
To: Nicole Maljovec
Subject: Coorected COC for 4.28.2011
Attachments: COC 04 28 11 revised.xlsx

Nicole – the equipment blank submitted yesterday had the wrong sample number on both the bottles and the COC.

EB05-SA5B-SB-042811 should be
EB05-SA8N-SB-042811.

Attached is a revised email.
Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

13013 1244480 G27850-53

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Arrended COC
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-041-SA8N-SB-4.5	04.28.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA8N-SB-4.0-5.0	04.28.11	1209	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-041-SA8N-SB-9.5	04.28.11	1215	SOIL	NONE	1-Encore												X										
SL-041-SA8N-SB-9.0-10.0	04.28.11	1219	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
EB05-SA8N-SB-042811	04.28.11	1430	WATER	HCl	6-40 mL vials										X	X											
EB05-SA8N-SB-042811	04.28.11	1430	WATER	NONE	5-1 liter ambers			X	X	X																	
EB05-SA8N-SB-042811	04.28.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB05-SA8N-SB-042811	04.28.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
TB-042811	04.28.11	1600	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 04/28/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1441 7593; 8695 1441 7608																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/30/2011
Group Number: 1244632
SDG: DE140
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP06-SA8N-QC-042911 Soil	6272807
SL-013-SA8N-SB-2.0-3.0 Soil	6272808
SL-014-SA8N-SB-4.0-5.0 Soil	6272809
SL-017-SA8N-SB-4.0-5.0 Soil	6272810
SL-017-SA8N-SB-7.0-8.0 Soil	6272811
SL-040-SA8N-SB-4.0-5.0 Soil	6272812
SL-040-SA8N-SB-4.0-5.0MS Soil	6272813
SL-040-SA8N-SB-4.0-5.0MSD Soil	6272814
SL-040-SA8N-SB-4.0-5.0DUP Soil	6272815
SL-040-SA8N-SB-9.0-10.0 Soil	6272816
SL-049-SA8N-SB-4.0-5.0 Soil	6272817
SL-049-SA8N-SB-8.0-9.0 Soil	6272818
TB-042911 Water	6272819

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	J	6.9	8.2		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.85
06192	Methylene Chloride	75-09-2	22		0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.72
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.74	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.83	J	0.80	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.5	J	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		20.94
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.96	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,000		6.03	24.0		1
07914	Boron	7440-42-8	8.74		1.07	6.00		1
01650	Calcium	7440-70-2	11,700		7.35	24.0		1
01654	Iron	7439-89-6	37,700		28.2	120		5
01656	Lithium	7439-93-2	29.1		0.26	2.4		1
01657	Magnesium	7439-95-4	8,010		3.05	12.0		1
06958	Manganese	7439-96-5	494		0.0935	0.600		1
10145	Phosphorus	7723-14-0	357		0.671	12.0		1
01662	Potassium	7440-09-7	5,270		21.6	60.0		1
01667	Sodium	7440-23-5	108	J	44.7	120		1
07968	Strontium	7440-24-6	47.0		0.0743	0.600		1
06969	Tin	7440-31-5	3.28	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,560		0.456	1.20		1
10146	Zirconium	7440-67-7	7.08		1.01	6.00		1

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Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.240	0.0705	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.52	0.0940	0.470		2
06126	Barium	7440-39-3	138	0.127	0.470		2
06127	Beryllium	7440-41-7	0.845	0.0188	0.118		2
06128	Cadmium	7440-43-9	0.281	0.0470	0.118		2
06131	Chromium	7440-47-3	34.0	0.141	0.470		2
06132	Cobalt	7440-48-4	12.0	0.0235	0.118		2
06133	Copper	7440-50-8	19.0	0.0776	0.470		2
06135	Lead	7439-92-1	10.4	0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.505	0.0588	0.118		2
06139	Nickel	7440-02-0	22.6	0.118	0.470		2
06141	Selenium	7782-49-2	0.222 J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0453 J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.402	0.0353	0.118		2
06148	Vanadium	7440-62-2	63.5	0.0259	0.118		2
06149	Zinc	7440-66-6	75.8	0.658	3.53		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.96	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8	36.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 17:37	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 14:37	Jason M Long	19.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 12:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 12:58	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 20:13	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 20:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 11:13	Elizabeth J Marin	20.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 12:58	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 07:36	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 17:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:42	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:01	Damary Valentin	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272807
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-1 SDG#: DE140-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 16:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 10:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 22:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 21:14	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	J	6.4	7.6		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	9.2		0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.10	J	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.32
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.89	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.64	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.62	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.72	22.7		1
07914	Boron	7440-42-8	3.02	J	1.01	5.68		1
01650	Calcium	7440-70-2	13,500		6.97	22.7		1
01654	Iron	7439-89-6	23,900		5.35	22.7		1
01656	Lithium	7439-93-2	23.3		0.25	2.3		1
01657	Magnesium	7439-95-4	5,440		2.89	11.4		1
06958	Manganese	7439-96-5	379		0.0886	0.568		1
10145	Phosphorus	7723-14-0	454		0.636	11.4		1
01662	Potassium	7440-09-7	3,040		20.5	56.8		1
01667	Sodium	7440-23-5	131		42.4	114		1
07968	Strontium	7440-24-6	27.9		0.0705	0.568		1
06969	Tin	7440-31-5	2.80	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,280		0.432	1.14		1
10146	Zirconium	7440-67-7	4.32	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0675	0.225		2

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Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.69	0.0900	0.450		2
06126	Barium	7440-39-3	83.5	0.122	0.450		2
06127	Beryllium	7440-41-7	0.633	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.284	0.0450	0.113		2
06131	Chromium	7440-47-3	23.2	0.135	0.450		2
06132	Cobalt	7440-48-4	8.54	0.0225	0.113		2
06133	Copper	7440-50-8	12.5	0.0743	0.450		2
06135	Lead	7439-92-1	7.62	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.393	0.0563	0.113		2
06139	Nickel	7440-02-0	16.4	0.113	0.450		2
06141	Selenium	7782-49-2	0.0867 J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0412 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.287	0.0338	0.113		2
06148	Vanadium	7440-62-2	43.5	0.0248	0.113		2
06149	Zinc	7440-66-6	198	1.58	8.44		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	392	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 17:59	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 14:57	Jason M Long	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:00	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 20:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 20:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 07:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011 18:03	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:05	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 13:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272808
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-2 SDG#: DE140-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 13:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 16:17	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 11:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 22:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 21:27	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.81
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.81
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.81
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.81
06192	Methylene Chloride	75-09-2	9.9		0.22	3.7		0.81
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.81
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.81
06192	Toluene	108-88-3	0.09	J	0.07	3.7		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.81
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.8	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.65	22.5		1
07914	Boron	7440-42-8	1.60	J	0.999	5.62		1
01650	Calcium	7440-70-2	6,750		6.88	22.5		1
01654	Iron	7439-89-6	22,800		5.29	22.5		1
01656	Lithium	7439-93-2	20.3		0.25	2.2		1
01657	Magnesium	7439-95-4	5,480		2.85	11.2		1
06958	Manganese	7439-96-5	201		0.0876	0.562		1
10145	Phosphorus	7723-14-0	346		0.629	11.2		1
01662	Potassium	7440-09-7	1,950		20.2	56.2		1
01667	Sodium	7440-23-5	493		41.9	112		1
07968	Strontium	7440-24-6	18.9		0.0696	0.562		1
06969	Tin	7440-31-5	3.05	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,270		0.427	1.12		1
10146	Zirconium	7440-67-7	4.05	J	0.943	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.45		0.0898	0.449		2
06126	Barium	7440-39-3	60.9		0.121	0.449		2

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Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.517	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0862 J	0.0449	0.112		2
06131	Chromium	7440-47-3	20.7	0.135	0.449		2
06132	Cobalt	7440-48-4	5.78	0.0225	0.112		2
06133	Copper	7440-50-8	9.47	0.0741	0.449		2
06135	Lead	7439-92-1	5.08	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.206	0.0562	0.112		2
06139	Nickel	7440-02-0	15.3	0.112	0.449		2
06141	Selenium	7782-49-2	0.0449 U	0.0449	0.449		2
06142	Silver	7440-22-4	0.0247 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.220	0.0337	0.112		2
06148	Vanadium	7440-62-2	33.8	0.0247	0.112		2
06149	Zinc	7440-66-6	47.4	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.62	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 18:21	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 15:17	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:04	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 21:06	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 21:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 09:26	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011 18:21	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:08	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272809
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-3 SDG#: DE140-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 11:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 23:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11138243201A	05/22/2011 21:33	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.82
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.82
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.82
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.82
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.82
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.82
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.82
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.82
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.82
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.82
06192	Methylene Chloride	75-09-2	18		0.22	3.7		0.82
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.82

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.82
06192	Toluene	108-88-3	0.11	J	0.07	3.7		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.83
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1

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Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	11	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.57	22.2		1
07914	Boron	7440-42-8	1.04	J	0.986	5.54		1
01650	Calcium	7440-70-2	4,210		6.79	22.2		1
01654	Iron	7439-89-6	24,100		5.22	22.2		1
01656	Lithium	7439-93-2	20.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,530		2.81	11.1		1
06958	Manganese	7439-96-5	346		0.0864	0.554		1
10145	Phosphorus	7723-14-0	262		0.620	11.1		1
01662	Potassium	7440-09-7	1,570		19.9	55.4		1
01667	Sodium	7440-23-5	699		41.3	111		1
07968	Strontium	7440-24-6	22.7		0.0687	0.554		1
06969	Tin	7440-31-5	3.03	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,270		0.421	1.11		1
10146	Zirconium	7440-67-7	4.11	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0658	0.219		2

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Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.85	0.0878	0.439		2
06126	Barium	7440-39-3	78.5	0.118	0.439		2
06127	Beryllium	7440-41-7	0.761	0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0449 J	0.0439	0.110		2
06131	Chromium	7440-47-3	23.7	0.132	0.439		2
06132	Cobalt	7440-48-4	9.04	0.0219	0.110		2
06133	Copper	7440-50-8	11.8	0.0724	0.439		2
06135	Lead	7439-92-1	6.94	0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.377	0.0549	0.110		2
06139	Nickel	7440-02-0	15.4	0.110	0.439		2
06141	Selenium	7782-49-2	0.0768 J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0255 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.258	0.0329	0.110		2
06148	Vanadium	7440-62-2	45.5	0.0241	0.110		2
06149	Zinc	7440-66-6	55.7	0.614	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.0	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	386	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-4 SDG#: DE140-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-017-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 18:43	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 15:37	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:06	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 21:32	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 21:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 09:45	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011 18:38	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:12	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 13:57	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272810
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

140-4 SDG#: DE140-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 12:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 23:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11138243201A	05/22/2011 21:46	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-5 SDG#: DE140-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-5 SDG#: DE140-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.2	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.72	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

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Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-5 SDG#: DE140-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		5.76	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.73		1
01650	Calcium	7440-70-2	4,270		7.02	22.9		1
01654	Iron	7439-89-6	22,400		5.39	22.9		1
01656	Lithium	7439-93-2	19.0		0.25	2.3		1
01657	Magnesium	7439-95-4	4,710		2.91	11.5		1
06958	Manganese	7439-96-5	305		0.0893	0.573		1
10145	Phosphorus	7723-14-0	326		0.641	11.5		1
01662	Potassium	7440-09-7	1,940		20.6	57.3		1
01667	Sodium	7440-23-5	459		42.7	115		1
07968	Strontium	7440-24-6	18.1		0.0710	0.573		1
06969	Tin	7440-31-5	3.04	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,270		0.435	1.15		1
10146	Zirconium	7440-67-7	4.16	J	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.26		0.0916	0.458		2
06126	Barium	7440-39-3	89.6		0.124	0.458		2
06127	Beryllium	7440-41-7	0.643		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.125		0.0458	0.115		2
06131	Chromium	7440-47-3	22.5		0.137	0.458		2
06132	Cobalt	7440-48-4	10.1		0.0229	0.115		2
06133	Copper	7440-50-8	10.2		0.0756	0.458		2
06135	Lead	7439-92-1	6.46		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.276		0.0573	0.115		2
06139	Nickel	7440-02-0	16.6		0.115	0.458		2
06141	Selenium	7782-49-2	0.0458	U	0.0458	0.458		2
06142	Silver	7440-22-4	0.0200	J	0.0137	0.115		2
06145	Thallium	7440-28-0	0.225		0.0344	0.115		2
06148	Vanadium	7440-62-2	47.8		0.0252	0.115		2
06149	Zinc	7440-66-6	54.4		0.641	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.1		0.93	1.2		1

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Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

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Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-5 SDG#: DE140-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011	21:58	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011	22:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011	07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011	07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011	10:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011	07:30	Olivia Arosemena	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011	18:56	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011	10:15	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011	10:15	Damary Valentin	1

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Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
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Chantilly VA 20151

140-5 SDG#: DE140-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:15	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 12:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 23:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 22:04	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA8N-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272811
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-5 SDG#: DE140-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3	U	8.3	10		1.04
06192	Benzene	71-43-2	0.12	U	0.12	5.0		1.04
06192	Bromobenzene	108-86-1	0.16	U	0.16	5.0		1.04
06192	Bromochloromethane	74-97-5	0.41	U	0.41	5.0		1.04
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	5.0		1.04
06192	Bromoform	75-25-2	0.50	U	0.50	5.0		1.04
06192	Bromomethane	74-83-9	0.31	U	0.31	5.0		1.04
06192	2-Butanone	78-93-3	1.5	U	1.5	10		1.04
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	5.0		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	5.0		1.04
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	5.0		1.04
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	5.0		1.04
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.0		1.04
06192	Chloroethane	75-00-3	0.16	U	0.16	5.0		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	5.0		1.04
06192	Chloroform	67-66-3	0.15	U	0.15	5.0		1.04
06192	Chloromethane	74-87-3	0.41	U	0.41	5.0		1.04
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	5.0		1.04
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	5.0		1.04
06192	Chlorotrifluoroethene	79-38-9	0.62	U	0.62	6.2		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.87	U	0.87	5.0		1.04
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	5.0		1.04
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	5.0		1.04
06192	Dibromomethane	74-95-3	0.30	U	0.30	5.0		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	5.0		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	5.0		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	5.0		1.04
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	5.0		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	5.0		1.04
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	5.0		1.04
06192	1,1-Dichloroethene	75-35-4	0.49	U	0.49	5.0		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.24	U	0.24	5.0		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	5.0		1.04
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	5.0		1.04
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	5.0		1.04
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	5.0		1.04
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	5.0		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.0		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	5.0		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	5.0		1.04
06192	Freon 113	76-13-1	0.14	U	0.14	5.0		1.04
06192	Freon 133a	75-88-7	0.62	U	0.62	6.2		1.04
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	5.0		1.04
06192	2-Hexanone	591-78-6	2.0	U	2.0	10		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	5.0		1.04
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.0		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	5.0		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.49	U	0.49	10		1.04
06192	Methylene Chloride	75-09-2	14		0.30	5.0		1.04
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.0		1.04

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	5.0		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.0		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29	U	0.29	5.0		1.04
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	5.0		1.04
06192	Toluene	108-88-3	0.11	J	0.1	5.0		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	5.0		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	5.0		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	5.0		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.34	U	0.34	5.0		1.04
06192	Trichloroethene	79-01-6	0.19	U	0.19	5.0		1.04
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	5.0		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	5.0		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.50	U	0.50	5.0		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	5.0		1.04
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	5.0		1.04
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	5.0		1.04
06192	o-Xylene	95-47-6	0.21	U	0.21	5.0		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		20.76
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.1	J	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.44
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	1.7		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	4.0		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,900		5.96	23.7		1
07914	Boron	7440-42-8	7.56		1.06	5.93		1
01650	Calcium	7440-70-2	10,400		7.27	23.7		1
01654	Iron	7439-89-6	37,900		27.9	119		5
01656	Lithium	7439-93-2	28.8		0.26	2.4		1
01657	Magnesium	7439-95-4	7,890		3.01	11.9		1
06958	Manganese	7439-96-5	493		0.0925	0.593		1
10145	Phosphorus	7723-14-0	356		0.664	11.9		1
01662	Potassium	7440-09-7	5,260		21.3	59.3		1
01667	Sodium	7440-23-5	113	J	44.2	119		1
07968	Strontium	7440-24-6	45.6		0.0735	0.593		1
06969	Tin	7440-31-5	2.98	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,290		0.451	1.19		1
10146	Zirconium	7440-67-7	6.47		0.996	5.93		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.303	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.99	0.0939	0.470		2
06126	Barium	7440-39-3	130	0.127	0.470		2
06127	Beryllium	7440-41-7	0.800	0.0188	0.117		2
06128	Cadmium	7440-43-9	0.279	0.0470	0.117		2
06131	Chromium	7440-47-3	31.4	0.141	0.470		2
06132	Cobalt	7440-48-4	10.7	0.0235	0.117		2
06133	Copper	7440-50-8	16.5	0.0775	0.470		2
06135	Lead	7439-92-1	9.31	0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.359	0.0587	0.117		2
06139	Nickel	7440-02-0	20.9	0.117	0.470		2
06141	Selenium	7782-49-2	0.251 J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0278 J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.306	0.0352	0.117		2
06148	Vanadium	7440-62-2	55.6	0.0258	0.117		2
06149	Zinc	7440-66-6	73.1	0.658	3.52		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.96	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8	35.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	412	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 19:05	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 15:57	Jason M Long	20.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:09	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/06/2011 22:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 18:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 14:52	Elizabeth J Marin	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:09	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 10:22	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 17:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:21	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1

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Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272812
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 09:29	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 13:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 13:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 13:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 13:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 10:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 21:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 22:17	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.9	8.3		0.87
06192	Benzene	71-43-2	22	0.10	4.2		0.87
06192	Bromobenzene	108-86-1	18	0.14	4.2		0.87
06192	Bromochloromethane	74-97-5	23	0.34	4.2		0.87
06192	Bromodichloromethane	75-27-4	19	0.08	4.2		0.87
06192	Bromoform	75-25-2	17	0.42	4.2		0.87
06192	Bromomethane	74-83-9	21	0.26	4.2		0.87
06192	2-Butanone	78-93-3	120	1.3	8.3		0.87
06192	n-Butylbenzene	104-51-8	14	0.12	4.2		0.87
06192	sec-Butylbenzene	135-98-8	16	0.06	4.2		0.87
06192	tert-Butylbenzene	98-06-6	15	0.17	4.2		0.87
06192	Carbon Tetrachloride	56-23-5	20	0.14	4.2		0.87
06192	Chlorobenzene	108-90-7	18	0.11	4.2		0.87
06192	Chloroethane	75-00-3	21	0.14	4.2		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	15	0.31	4.2		0.87
06192	Chloroform	67-66-3	21	0.12	4.2		0.87
06192	Chloromethane	74-87-3	22	0.34	4.2		0.87
06192	2-Chlorotoluene	95-49-8	17	0.14	4.2		0.87
06192	4-Chlorotoluene	106-43-4	16	0.14	4.2		0.87
06192	Chlorotrifluoroethene	79-38-9	26	0.51	5.2		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	14	0.73	4.2		0.87
06192	Dibromochloromethane	124-48-1	18	0.21	4.2		0.87
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.2		0.87
06192	Dibromomethane	74-95-3	18	0.25	4.2		0.87
06192	1,2-Dichlorobenzene	95-50-1	15	0.09	4.2		0.87
06192	1,3-Dichlorobenzene	541-73-1	15	0.12	4.2		0.87
06192	1,4-Dichlorobenzene	106-46-7	15	0.17	4.2		0.87
06192	Dichlorodifluoromethane	75-71-8	20	0.12	4.2		0.87
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.2		0.87
06192	1,2-Dichloroethane	107-06-2	19	0.16	4.2		0.87
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.2		0.87
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.2		0.87
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	4.2		0.87
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.2		0.87
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.2		0.87
06192	2,2-Dichloropropane	594-20-7	19	0.18	4.2		0.87
06192	1,1-Dichloropropene	563-58-6	21	0.14	4.2		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.17	4.2		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.18	4.2		0.87
06192	Ethylbenzene	100-41-4	18	0.06	4.2		0.87
06192	Freon 113	76-13-1	27	0.11	4.2		0.87
06192	Freon 133a	75-88-7	23	0.51	5.2		0.86
06192	Hexachlorobutadiene	87-68-3	11	0.14	4.2		0.87
06192	2-Hexanone	591-78-6	77	1.7	8.3		0.87
06192	Isopropylbenzene	98-82-8	16	0.06	4.2		0.87
06192	p-Isopropyltoluene	99-87-6	15	0.11	4.2		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.22	4.2		0.87
06192	4-Methyl-2-pentanone	108-10-1	80	0.40	8.3		0.87
06192	Methylene Chloride	75-09-2	66	0.25	4.2		0.87
06192	n-Propylbenzene	103-65-1	18	0.07	4.2		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	16		0.10	4.2		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	18		0.11	4.2		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.24	4.2		0.87
06192	Tetrachloroethene	127-18-4	26		0.21	4.2		0.87
06192	Toluene	108-88-3	20		0.08	4.2		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	11		0.14	4.2		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	10		0.19	4.2		0.87
06192	1,1,1-Trichloroethane	71-55-6	21		0.21	4.2		0.87
06192	1,1,2-Trichloroethane	79-00-5	20		0.28	4.2		0.87
06192	Trichloroethene	79-01-6	21		0.16	4.2		0.87
06192	Trichlorofluoromethane	75-69-4	23		0.30	4.2		0.87
06192	1,2,3-Trichloropropane	96-18-4	19		0.34	4.2		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	16		0.42	4.2		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.10	4.2		0.87
06192	Vinyl Chloride	75-01-4	22		0.21	4.2		0.87
06192	m+p-Xylene	179601-23-1	34		0.18	4.2		0.87
06192	o-Xylene	95-47-6	16		0.18	4.2		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		5.3	16		22.32
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		20	200		1
04688	Acenaphthylene	208-96-8	1,900		20	200		1
04688	Aniline	62-53-3	1,300		200	600		1
04688	Anthracene	120-12-7	1,800		20	200		1
04688	Benzidine	92-87-5	3,500	J	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	1,900		20	200		1
04688	Benzo(a)pyrene	50-32-8	1,900		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	2,000		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		20	200		1
04688	Benzo(k)fluoranthene	207-08-9	2,000		20	200		1
04688	Benzoic acid	65-85-0	1,200		200	600		1
04688	Benzyl alcohol	100-51-6	1,800		200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		20	200		1
04688	Butylbenzylphthalate	85-68-7	2,200		20	200		1
04688	Di-n-butylphthalate	84-74-2	1,800		20	200		1
04688	Carbazole	86-74-8	1,900		20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		40	200		1
04688	4-Chloroaniline	106-47-8	950		80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		20	200		1
04688	2-Chloronaphthalene	91-58-7	1,800		20	200		1
04688	2-Chlorophenol	95-57-8	1,900		20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		40	200		1
04688	Chrysene	218-01-9	1,900		20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		20	200		1
04688	Dibenzofuran	132-64-9	1,800		20	200		1

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Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,700	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	120	400		1
04688	2,4-Dichlorophenol	120-83-2	1,800	20	200		1
04688	Diethylphthalate	84-66-2	1,800	20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800	40	200		1
04688	3,5-Dimethylphenol	108-68-9	1,800	40	200		1
04688	Dimethylphthalate	131-11-3	1,800	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,800	200	600		1
04688	2,4-Dinitrophenol	51-28-5	3,200	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	20	400		1
04688	Fluoranthene	206-44-0	1,800	20	200		1
04688	Fluorene	86-73-7	1,700	20	200		1
04688	Hexachlorobenzene	118-74-1	1,700	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,800	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	2,800	200	600		1
04688	Hexachloroethane	67-72-1	1,500	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	20	200		1
04688	Isophorone	78-59-1	1,800	20	200		1
04688	1-Methylnaphthalene	90-12-0	1,800	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,700	20	200		1
04688	2-Methylphenol	95-48-7	1,800	40	200		1
04688	4-Methylphenol	106-44-5	1,800	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	20	200		1
04688	2-Nitroaniline	88-74-4	1,700	20	200		1
04688	3-Nitroaniline	99-09-2	1,700	40	200		1
04688	4-Nitroaniline	100-01-6	1,400	80	200		1
04688	Nitrobenzene	98-95-3	1,800	20	200		1
04688	2-Nitrophenol	88-75-5	1,900	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	600		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	40	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,200	20	200		1
04688	Pentachlorophenol	87-86-5	1,700	200	600		1
04688	Phenanthrene	85-01-8	1,800	20	200		1
04688	Phenol	108-95-2	1,800	20	200		1
04688	Pyrene	129-00-0	2,100	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	40	200		1

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Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.80	2.0		1
10138	Acenaphthylene	208-96-8	37		0.40	2.0		1
10138	Anthracene	120-12-7	38		0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	39		0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	41		0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	40		0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	43		7.2	22		1
10138	Di-n-butylphthalate	84-74-2	45		7.2	22		1
10138	Chrysene	218-01-9	38		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	39		0.80	2.0		1
10138	Diethylphthalate	84-66-2	42		7.2	22		1
10138	Dimethylphthalate	131-11-3	39		7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		7.2	22		1
10138	Fluoranthene	206-44-0	40		0.80	2.0		1
10138	Fluorene	86-73-7	38		0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	37		0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	33		0.80	2.0		1
10138	Naphthalene	91-20-3	36		0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	46		7.2	22		1
10138	Phenanthrene	85-01-8	36		0.80	2.0		1
10138	Pyrene	129-00-0	36		0.80	2.0		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.1		0.2	1.0		21.74
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	22		0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	24		0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1

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Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.86	J	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.7		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	9.1		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.54	J	0.48	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,000		5.96	23.7		1
07914	Boron	7440-42-8	251		1.06	5.93		1
01650	Calcium	7440-70-2	15,100		7.27	23.7		1
01654	Iron	7439-89-6	39,900		27.9	119		5
01656	Lithium	7439-93-2	151		0.26	2.4		1
01657	Magnesium	7439-95-4	8,820		3.01	11.9		1
06958	Manganese	7439-96-5	522		0.0925	0.593		1
10145	Phosphorus	7723-14-0	458		0.664	11.9		1
01662	Potassium	7440-09-7	6,970		21.3	59.3		1
01667	Sodium	7440-23-5	1,230		44.2	119		1
07968	Strontium	7440-24-6	170		0.0735	0.593		1
06969	Tin	7440-31-5	430		1.19	11.9		1
06970	Titanium	7440-32-6	1,940		0.451	1.19		1
10146	Zirconium	7440-67-7	120		0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.912		0.0711	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.83		0.0949	0.474		2
06126	Barium	7440-39-3	140		0.128	0.474		2
06127	Beryllium	7440-41-7	1.49		0.0190	0.119		2
06128	Cadmium	7440-43-9	1.23		0.0474	0.119		2
06131	Chromium	7440-47-3	41.7		0.142	0.474		2
06132	Cobalt	7440-48-4	62.2		0.0237	0.119		2
06133	Copper	7440-50-8	26.4		0.0783	0.474		2
06135	Lead	7439-92-1	12.5		0.0123	0.237		2
06138	Molybdenum	7439-98-7	10.4		0.0593	0.119		2
06139	Nickel	7440-02-0	30.3		0.119	0.474		2
06141	Selenium	7782-49-2	2.00		0.0474	0.474		2
06142	Silver	7440-22-4	10.1		0.0142	0.119		2
06145	Thallium	7440-28-0	0.706		0.0356	0.119		2
06148	Vanadium	7440-62-2	70.0		0.0261	0.119		2
06149	Zinc	7440-66-6	77.2		0.664	3.56		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.188		0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4	0.96	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	516	10.8	35.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.2	1.2	6.0		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 19:28	Chelsea B Eastep	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 20:12	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 16:17	Jason M Long	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:12	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/07/2011 03:20	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 19:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 15:29	Elizabeth J Marin	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:12	Christopher D Meeks	n.a.

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Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
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140-6 SDG#: DE140-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 10:40	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 19:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:31	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 09:40	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 10:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11127127203B	05/13/2011 10:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 22:29	Parker D Lindstrom	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272813
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11127127203B	05/11/2011 12:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.8	8.1		0.84
06192	Benzene	71-43-2	22	0.10	4.0		0.84
06192	Bromobenzene	108-86-1	20	0.13	4.0		0.84
06192	Bromochloromethane	74-97-5	25	0.33	4.0		0.84
06192	Bromodichloromethane	75-27-4	19	0.08	4.0		0.84
06192	Bromoform	75-25-2	17	0.40	4.0		0.84
06192	Bromomethane	74-83-9	21	0.25	4.0		0.84
06192	2-Butanone	78-93-3	130	1.2	8.1		0.84
06192	n-Butylbenzene	104-51-8	18	0.12	4.0		0.84
06192	sec-Butylbenzene	135-98-8	20	0.06	4.0		0.84
06192	tert-Butylbenzene	98-06-6	18	0.16	4.0		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.14	4.0		0.84
06192	Chlorobenzene	108-90-7	19	0.11	4.0		0.84
06192	Chloroethane	75-00-3	21	0.13	4.0		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.30	4.0		0.84
06192	Chloroform	67-66-3	21	0.12	4.0		0.84
06192	Chloromethane	74-87-3	23	0.33	4.0		0.84
06192	2-Chlorotoluene	95-49-8	19	0.14	4.0		0.84
06192	4-Chlorotoluene	106-43-4	19	0.14	4.0		0.84
06192	Chlorotrifluoroethene	79-38-9	25	0.48	4.8		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.71	4.0		0.84
06192	Dibromochloromethane	124-48-1	19	0.20	4.0		0.84
06192	1,2-Dibromoethane	106-93-4	20	0.17	4.0		0.84
06192	Dibromomethane	74-95-3	19	0.24	4.0		0.84
06192	1,2-Dichlorobenzene	95-50-1	17	0.09	4.0		0.84
06192	1,3-Dichlorobenzene	541-73-1	18	0.12	4.0		0.84
06192	1,4-Dichlorobenzene	106-46-7	18	0.16	4.0		0.84
06192	Dichlorodifluoromethane	75-71-8	20	0.12	4.0		0.84
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.0		0.84
06192	1,2-Dichloroethane	107-06-2	19	0.15	4.0		0.84
06192	1,1-Dichloroethene	75-35-4	24	0.39	4.0		0.84
06192	cis-1,2-Dichloroethene	156-59-2	21	0.19	4.0		0.84
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	4.0		0.84
06192	1,2-Dichloropropane	78-87-5	21	0.17	4.0		0.84
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.0		0.84
06192	2,2-Dichloropropane	594-20-7	19	0.17	4.0		0.84
06192	1,1-Dichloropropene	563-58-6	21	0.13	4.0		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	4.0		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	4.0		0.84
06192	Ethylbenzene	100-41-4	19	0.06	4.0		0.84
06192	Freon 113	76-13-1	26	0.11	4.0		0.84
06192	Freon 133a	75-88-7	21	0.48	4.8		0.81
06192	Hexachlorobutadiene	87-68-3	15	0.14	4.0		0.84
06192	2-Hexanone	591-78-6	88	1.6	8.1		0.84
06192	Isopropylbenzene	98-82-8	18	0.06	4.0		0.84
06192	p-Isopropyltoluene	99-87-6	18	0.11	4.0		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.21	4.0		0.84
06192	4-Methyl-2-pentanone	108-10-1	86	0.39	8.1		0.84
06192	Methylene Chloride	75-09-2	66	0.24	4.0		0.84
06192	n-Propylbenzene	103-65-1	21	0.07	4.0		0.84

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Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	17	0.10	4.0		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19	0.11	4.0		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.23	4.0		0.84
06192	Tetrachloroethene	127-18-4	27	0.20	4.0		0.84
06192	Toluene	108-88-3	21	0.08	4.0		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	13	0.14	4.0		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	12	0.18	4.0		0.84
06192	1,1,1-Trichloroethane	71-55-6	21	0.20	4.0		0.84
06192	1,1,2-Trichloroethane	79-00-5	20	0.27	4.0		0.84
06192	Trichloroethene	79-01-6	21	0.15	4.0		0.84
06192	Trichlorofluoromethane	75-69-4	23	0.29	4.0		0.84
06192	1,2,3-Trichloropropane	96-18-4	21	0.33	4.0		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	19	0.40	4.0		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	20	0.10	4.0		0.84
06192	Vinyl Chloride	75-01-4	23	0.20	4.0		0.84
06192	m+p-Xylene	179601-23-1	37	0.17	4.0		0.84
06192	o-Xylene	95-47-6	18	0.17	4.0		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	4.9	15		20.39
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000	20	200		1
04688	Acenaphthylene	208-96-8	2,000	20	200		1
04688	Aniline	62-53-3	1,600	200	590		1
04688	Anthracene	120-12-7	2,000	20	200		1
04688	Benzidine	92-87-5	5,300	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	2,000	20	200		1
04688	Benzo(a)pyrene	50-32-8	1,900	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,900	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	20	200		1
04688	Benzoic acid	65-85-0	1,700	200	590		1
04688	Benzyl alcohol	100-51-6	1,900	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	20	200		1
04688	Butylbenzylphthalate	85-68-7	2,300	20	200		1
04688	Di-n-butylphthalate	84-74-2	1,900	20	200		1
04688	Carbazole	86-74-8	2,000	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	40	200		1
04688	4-Chloroaniline	106-47-8	1,300	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	20	200		1
04688	2-Chloronaphthalene	91-58-7	1,500	20	200		1
04688	2-Chlorophenol	95-57-8	2,000	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	40	200		1
04688	Chrysene	218-01-9	2,000	20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	20	200		1
04688	Dibenzofuran	132-64-9	2,000	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,800	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,700	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	120	400		1
04688	2,4-Dichlorophenol	120-83-2	1,900	20	200		1
04688	Diethylphthalate	84-66-2	2,000	20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,900	40	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900	40	200		1
04688	Dimethylphthalate	131-11-3	1,900	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,900	200	590		1
04688	2,4-Dinitrophenol	51-28-5	4,000	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	2,200	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	2,000	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	20	400		1
04688	Fluoranthene	206-44-0	1,900	20	200		1
04688	Fluorene	86-73-7	1,900	20	200		1
04688	Hexachlorobenzene	118-74-1	1,900	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,900	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	3,400	200	590		1
04688	Hexachloroethane	67-72-1	1,700	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	20	200		1
04688	Isophorone	78-59-1	1,900	20	200		1
04688	1-Methylnaphthalene	90-12-0	1,900	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200		1
04688	2-Methylphenol	95-48-7	1,800	40	200		1
04688	4-Methylphenol	106-44-5	2,000	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	20	200		1
04688	2-Nitroaniline	88-74-4	1,900	20	200		1
04688	3-Nitroaniline	99-09-2	2,000	40	200		1
04688	4-Nitroaniline	100-01-6	1,600	79	200		1
04688	Nitrobenzene	98-95-3	2,000	20	200		1
04688	2-Nitrophenol	88-75-5	1,900	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	40	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,100	20	200		1
04688	Pentachlorophenol	87-86-5	1,900	200	590		1
04688	Phenanthrene	85-01-8	1,900	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1
04688	Pyrene	129-00-0	2,100	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	40	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	2,000		40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.80	2.0		1
10138	Acenaphthylene	208-96-8	35		0.40	2.0		1
10138	Anthracene	120-12-7	38		0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	42		0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	42		0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	40		0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	47		7.2	22		1
10138	Di-n-butylphthalate	84-74-2	46		7.2	22		1
10138	Chrysene	218-01-9	40		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	42		0.80	2.0		1
10138	Diethylphthalate	84-66-2	41		7.2	22		1
10138	Dimethylphthalate	131-11-3	38		7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	53		7.2	22		1
10138	Fluoranthene	206-44-0	41		0.80	2.0		1
10138	Fluorene	86-73-7	39		0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	36		0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	33		0.80	2.0		1
10138	Naphthalene	91-20-3	34		0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	51		7.2	22		1
10138	Phenanthrene	85-01-8	36		0.80	2.0		1
10138	Pyrene	129-00-0	38		0.80	2.0		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.2		0.2	1.2		24.32
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	24		0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	28		0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	J	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	3.0		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	3.7		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.53	J	0.48	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,000		5.96	23.7		1
07914	Boron	7440-42-8	246		1.06	5.93		1
01650	Calcium	7440-70-2	13,100		7.27	23.7		1
01654	Iron	7439-89-6	38,700		27.9	119		5
01656	Lithium	7439-93-2	148		0.26	2.4		1
01657	Magnesium	7439-95-4	8,470		3.01	11.9		1
06958	Manganese	7439-96-5	543		0.0925	0.593		1
10145	Phosphorus	7723-14-0	470		0.664	11.9		1
01662	Potassium	7440-09-7	6,880		21.3	59.3		1
01667	Sodium	7440-23-5	1,220		44.2	119		1
07968	Strontium	7440-24-6	165		0.0735	0.593		1
06969	Tin	7440-31-5	428		1.19	11.9		1
06970	Titanium	7440-32-6	1,800		0.451	1.19		1
10146	Zirconium	7440-67-7	117		0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.921		0.0719	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.25		0.0958	0.479		2
06126	Barium	7440-39-3	144		0.129	0.479		2
06127	Beryllium	7440-41-7	1.61		0.0192	0.120		2
06128	Cadmium	7440-43-9	1.30		0.0479	0.120		2
06131	Chromium	7440-47-3	41.8		0.144	0.479		2
06132	Cobalt	7440-48-4	68.8		0.0240	0.120		2
06133	Copper	7440-50-8	29.4		0.0790	0.479		2
06135	Lead	7439-92-1	12.9		0.0125	0.240		2
06138	Molybdenum	7439-98-7	11.8		0.0599	0.120		2
06139	Nickel	7440-02-0	35.1		0.120	0.479		2
06141	Selenium	7782-49-2	2.38		0.0479	0.479		2
06142	Silver	7440-22-4	11.5		0.0144	0.120		2
06145	Thallium	7440-28-0	0.820		0.0359	0.120		2
06148	Vanadium	7440-62-2	70.6		0.0263	0.120		2
06149	Zinc	7440-66-6	87.6		0.671	3.59		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177		0.0032	0.113		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 19:50	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 20:35	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 16:37	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:26	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:15	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/07/2011 03:46	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 19:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 16:05	Elizabeth J Marin	24.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:15	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 10:58	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 17:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:35	Eric L Eby	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272814
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 09:43	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 13:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 13:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 13:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 13:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272815
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,800		5.91	23.5		1
07914	Boron	7440-42-8	8.65		1.04	5.87		1
01650	Calcium	7440-70-2	13,600		7.20	23.5		1
01654	Iron	7439-89-6	36,300		27.7	117		5
01656	Lithium	7439-93-2	29.3		0.26	2.3		1
01657	Magnesium	7439-95-4	7,890		2.98	11.7		1
06958	Manganese	7439-96-5	479		0.0916	0.587		1
10145	Phosphorus	7723-14-0	337		0.658	11.7		1
01662	Potassium	7440-09-7	5,150		21.1	58.7		1
01667	Sodium	7440-23-5	111	J	43.8	117		1
07968	Strontium	7440-24-6	47.8		0.0728	0.587		1
06969	Tin	7440-31-5	3.10	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,430		0.446	1.17		1
10146	Zirconium	7440-67-7	7.35		0.986	5.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.223	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.82		0.0921	0.461		2
06126	Barium	7440-39-3	131		0.124	0.461		2
06127	Beryllium	7440-41-7	0.832		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.305		0.0461	0.115		2
06131	Chromium	7440-47-3	32.8		0.138	0.461		2
06132	Cobalt	7440-48-4	11.4		0.0230	0.115		2
06133	Copper	7440-50-8	17.7		0.0760	0.461		2
06135	Lead	7439-92-1	9.72		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.406		0.0576	0.115		2
06139	Nickel	7440-02-0	23.6		0.115	0.461		2
06141	Selenium	7782-49-2	0.175	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0569	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.394		0.0345	0.115		2
06148	Vanadium	7440-62-2	59.4		0.0253	0.115		2
06149	Zinc	7440-66-6	71.0		0.645	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272815
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	413	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	16.4	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:28	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 09:36	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 13:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272815
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-6 SDG#: DE140-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 16:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 13:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 13:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 10:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/10/2011 21:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 23:19	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	1.4	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1.1		22.89
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	5.9		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	18		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		6.04	24.0		1
07914	Boron	7440-42-8	8.76		1.07	6.00		1
01650	Calcium	7440-70-2	98,600		36.8	120		5
01654	Iron	7439-89-6	25,200		5.65	24.0		1
01656	Lithium	7439-93-2	25.0		0.26	2.4		1
01657	Magnesium	7439-95-4	6,740		3.05	12.0		1
06958	Manganese	7439-96-5	375		0.0936	0.600		1
10145	Phosphorus	7723-14-0	488		0.672	12.0		1
01662	Potassium	7440-09-7	2,930		21.6	60.0		1
01667	Sodium	7440-23-5	195		44.8	120		1
07968	Strontium	7440-24-6	181		0.0744	0.600		1
06969	Tin	7440-31-5	2.80	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,190		0.456	1.20		1
10146	Zirconium	7440-67-7	5.49	J	1.01	6.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232	J	0.0727	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0969	0.485		2
06126	Barium	7440-39-3	108		0.131	0.485		2
06127	Beryllium	7440-41-7	0.765		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.311		0.0485	0.121		2
06131	Chromium	7440-47-3	31.8		0.145	0.485		2
06132	Cobalt	7440-48-4	8.69		0.0242	0.121		2
06133	Copper	7440-50-8	15.4		0.0800	0.485		2
06135	Lead	7439-92-1	9.16		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.240		0.0606	0.121		2
06139	Nickel	7440-02-0	17.1		0.121	0.485		2
06141	Selenium	7782-49-2	0.126	J	0.0485	0.485		2
06142	Silver	7440-22-4	0.0388	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.318		0.0364	0.121		2
06148	Vanadium	7440-62-2	62.3		0.0267	0.121		2
06149	Zinc	7440-66-6	61.9		0.679	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	4.6		0.98	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	11.0	U	11.0	36.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.37	J	0.24	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	413		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.07		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	18.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/07/2011	04:12	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011	22:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011	07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011	07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011	16:43	Elizabeth J Marin	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011	13:17	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011	11:17	Richard A Shober	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 18:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/10/2011 13:12	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:19	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/14/2011 12:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/11/2011 00:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 23:31	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272816
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-7 SDG#: DE140-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	J	6.3	7.6		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.84
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	16		0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.84

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.09	J	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	97.8		18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.6	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.16
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.52	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,500		5.60	22.2		1
07914	Boron	7440-42-8	1.05	J	0.990	5.56		1
01650	Calcium	7440-70-2	4,550		6.82	22.2		1
01654	Iron	7439-89-6	27,500		5.24	22.2		1
01656	Lithium	7439-93-2	30.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,470		2.83	11.1		1

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SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-8 SDG#: DE140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	312		0.0868	0.556		1
10145	Phosphorus	7723-14-0	214		0.623	11.1		1
01662	Potassium	7440-09-7	2,020		20.0	55.6		1
01667	Sodium	7440-23-5	641		41.5	111		1
07968	Strontium	7440-24-6	19.5		0.0690	0.556		1
06969	Tin	7440-31-5	3.01	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,450		0.423	1.11		1
10146	Zirconium	7440-67-7	5.58		0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.08		0.0881	0.441		2
06126	Barium	7440-39-3	76.6		0.119	0.441		2
06127	Beryllium	7440-41-7	0.775		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.138		0.0441	0.110		2
06131	Chromium	7440-47-3	26.4		0.132	0.441		2
06132	Cobalt	7440-48-4	9.88		0.0220	0.110		2
06133	Copper	7440-50-8	12.6		0.0727	0.441		2
06135	Lead	7439-92-1	6.59		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.506		0.0551	0.110		2
06139	Nickel	7440-02-0	18.1		0.110	0.441		2
06141	Selenium	7782-49-2	0.0501	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0602	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.291		0.0330	0.110		2
06148	Vanadium	7440-62-2	57.0		0.0242	0.110		2
06149	Zinc	7440-66-6	56.0		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

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140-8 SDG#: DE140-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	388	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.46	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 20:57	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 17:17	Jason M Long	20.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:26	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11123SLF026	05/06/2011 18:35	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLA026	05/07/2011 04:39	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/18/2011 23:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11123SLF026	05/04/2011 09:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLA026	05/05/2011 07:30	Joseph S Feister	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 11:49	Elizabeth J Marin	20.16
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:19	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 12:09	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111230008A	05/04/2011 19:30	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 11:35	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111230008A	05/03/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 13:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111230030A	05/03/2011 22:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011 19:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 14:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111230030A	05/03/2011 18:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:23	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 14:07	Choon Y Tian	2

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SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272817
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140-8 SDG#: DE140-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/13/2011 10:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11131621201A	05/13/2011 10:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/11/2011 00:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/22/2011 23:44	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6	J	8.2	9.9		1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.9		1.04
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.9		1.04
06192	Bromochloromethane	74-97-5	0.41	U	0.41	4.9		1.04
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.9		1.04
06192	Bromoform	75-25-2	0.49	U	0.49	4.9		1.04
06192	Bromomethane	74-83-9	0.31	U	0.31	4.9		1.04
06192	2-Butanone	78-93-3	1.5	U	1.5	9.9		1.04
06192	n-Butylbenzene	104-51-8	0.15	U	0.15	4.9		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.9		1.04
06192	tert-Butylbenzene	98-06-6	0.20	U	0.20	4.9		1.04
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.9		1.04
06192	Chlorobenzene	108-90-7	0.14	U	0.14	4.9		1.04
06192	Chloroethane	75-00-3	0.16	U	0.16	4.9		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37	U	0.37	4.9		1.04
06192	Chloroform	67-66-3	0.15	U	0.15	4.9		1.04
06192	Chloromethane	74-87-3	0.41	U	0.41	4.9		1.04
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.9		1.04
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.9		1.04
06192	Chlorotrifluoroethene	79-38-9	0.62	U	0.62	6.2		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86	U	0.86	4.9		1.04
06192	Dibromochloromethane	124-48-1	0.25	U	0.25	4.9		1.04
06192	1,2-Dibromoethane	106-93-4	0.21	U	0.21	4.9		1.04
06192	Dibromomethane	74-95-3	0.30	U	0.30	4.9		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.9		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.15	U	0.15	4.9		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	4.9		1.04
06192	Dichlorodifluoromethane	75-71-8	0.15	U	0.15	4.9		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.9		1.04
06192	1,2-Dichloroethane	107-06-2	0.19	U	0.19	4.9		1.04
06192	1,1-Dichloroethene	75-35-4	0.48	U	0.48	4.9		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.9		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.15	U	0.15	4.9		1.04
06192	1,2-Dichloropropane	78-87-5	0.21	U	0.21	4.9		1.04
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.9		1.04
06192	2,2-Dichloropropane	594-20-7	0.21	U	0.21	4.9		1.04
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.9		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	4.9		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.21	U	0.21	4.9		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.9		1.04
06192	Freon 113	76-13-1	0.14	U	0.14	4.9		1.04
06192	Freon 133a	75-88-7	0.62	U	0.62	6.2		1.04
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.9		1.04
06192	2-Hexanone	591-78-6	2.0	U	2.0	9.9		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.9		1.04
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	4.9		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26	U	0.26	4.9		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.48	U	0.48	9.9		1.04
06192	Methylene Chloride	75-09-2	33		0.30	4.9		1.04
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	4.9		1.04

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.9		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	4.9		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.9		1.04
06192	Tetrachloroethene	127-18-4	0.25	U	0.25	4.9		1.04
06192	Toluene	108-88-3	0.15	J	0.1	4.9		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.9		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.9		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.25	U	0.25	4.9		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.9		1.04
06192	Trichloroethene	79-01-6	0.19	U	0.19	4.9		1.04
06192	Trichlorofluoromethane	75-69-4	0.36	U	0.36	4.9		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.41	U	0.41	4.9		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.49	U	0.49	4.9		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.9		1.04
06192	Vinyl Chloride	75-01-4	0.25	U	0.25	4.9		1.04
06192	m+p-Xylene	179601-23-1	0.21	U	0.21	4.9		1.04
06192	o-Xylene	95-47-6	0.21	U	0.21	4.9		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		23.81
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	123		19.8	39.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1

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SL-049-SA8N-SB-8.0-9.0

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140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.91	23.5		1
07914	Boron	7440-42-8	1.05	U	1.05	5.88		1
01650	Calcium	7440-70-2	31,200		7.21	23.5		1
01654	Iron	7439-89-6	38,800		27.7	118		5
01656	Lithium	7439-93-2	41.0		0.26	2.4		1
01657	Magnesium	7439-95-4	8,580		2.99	11.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	302		0.0917	0.588		1
10145	Phosphorus	7723-14-0	543		0.658	11.8		1
01662	Potassium	7440-09-7	2,100		21.2	58.8		1
01667	Sodium	7440-23-5	698		43.9	118		1
07968	Strontium	7440-24-6	33.7		0.0729	0.588		1
06969	Tin	7440-31-5	3.39	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,540		0.447	1.18		1
10146	Zirconium	7440-67-7	6.58		0.988	5.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0914	0.457		2
06126	Barium	7440-39-3	70.2		0.123	0.457		2
06127	Beryllium	7440-41-7	0.914		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0995	J	0.0457	0.114		2
06131	Chromium	7440-47-3	25.2		0.137	0.457		2
06132	Cobalt	7440-48-4	6.92		0.0228	0.114		2
06133	Copper	7440-50-8	17.7		0.0754	0.457		2
06135	Lead	7439-92-1	7.21		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.263		0.0571	0.114		2
06139	Nickel	7440-02-0	18.1		0.114	0.457		2
06141	Selenium	7782-49-2	0.0760	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.101	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.290		0.0343	0.114		2
06148	Vanadium	7440-62-2	44.2		0.0251	0.114		2
06149	Zinc	7440-66-6	62.7		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0196	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	U	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	354	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.81	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA8N-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111231AA	05/03/2011 21:19	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 17:37	Jason M Long	23.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112024279	04/30/2011 13:26	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112024279	04/30/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11123SLF026	05/06/2011 18:52	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011 04:38	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011 00:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11123SLF026	05/04/2011 09:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011 07:30	Joseph S Feister	1

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 12:26	Elizabeth J Marin	25.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112024279	04/30/2011 13:21	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111200020A	05/19/2011 12:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111230008A	05/04/2011 20:09	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111230023A	05/06/2011 11:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111230023A	05/04/2011 07:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111230008A	05/03/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111200020A	05/02/2011 13:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 14:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111230030A	05/03/2011 23:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111220001A	05/02/2011 19:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 15:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111230030A	05/03/2011 18:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111220001A	05/02/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111235708001	05/09/2011 12:48	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111235708001	05/07/2011 10:26	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111231026001D	05/05/2011 14:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111231026001C	05/05/2011 16:19	Choon Y Tian	2

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Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272818
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140-9 SDG#: DE140-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111231026001B	05/05/2011 14:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111231026001A	05/05/2011 16:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111231026001A	05/05/2011 14:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111235711001	05/04/2011 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111235708001	05/03/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111231026001	05/04/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111235711001	05/04/2011 00:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11131621201A	05/13/2011 11:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11131621201A	05/13/2011 11:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11127127203B	05/11/2011 01:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11138243201A	05/22/2011 23:50	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:18	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11131621201A	05/11/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11127127203B	05/07/2011 14:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11123182101B	05/03/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11123039401B	05/03/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-042911 Water
SSFL Area IV Collocated Soil Sampling
TB-042911

LLI Sample # WW 6272819
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140TB SDG#: DE140-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-042911 Water
SSFL Area IV Collocated Soil Sampling
TB-042911

LLI Sample # WW 6272819
LLI Group # 1244632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:30

Submitted: 04/30/2011 09:45
Reported: 05/27/2011 11:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

140TB SDG#: DE140-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 19:45	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111222AA	05/02/2011 20:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111222AA	05/02/2011 20:24	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111262AA	05/06/2011 19:45	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11131A20A	05/12/2011 16:37	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11131A20A	05/12/2011 16:37	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111231AA	Sample number(s): 6272807-6272810,6272812-6272814,6272817-6272818									
Acetone	9.9		6.7	8.0	ug/kg	103		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	109		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	123		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	96		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	100		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	114		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	115		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	99		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	93		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	97		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	107		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	116		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	104		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	83		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	104		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	92		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	116		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	104		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	102		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	95		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	104		61-134		
Methylene Chloride	0.60	J	0.24	4.0	ug/kg	111		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	117		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	98		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	100		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105		77-120		
Toluene	0.15	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	102		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	96		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	108		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	111		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	107		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	98		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	104		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	99		80-120		
Batch number: E111222AA	Sample number(s): 6272819									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	121	80-123	9	30
Batch number: E111232AA	Sample number(s): 6272807-6272810,6272812-6272814,6272817-6272818									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	108	70-130	4	30
Batch number: L111262AA	Sample number(s): 6272819									
Acetone	6	U	6.	20	ug/l	113	123	49-234	8	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	104	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	90	92	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	93	93	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	95	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	105	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	95	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	104	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	85	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	82	82	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	92	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	90	93	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	111	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	87	90	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	91	92	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	100	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	96	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	95	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	81	82	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	84	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Styrene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	87	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	99	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	98	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	102	102	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	111	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	92	93	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	91	92	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	88	92	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	0	30
Batch number: 11123SLF026	Sample number(s): 6272817-6272818									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	75		70-130		
Batch number: 11124SLA026	Sample number(s): 6272807-6272814,6272816-6272817									
Acenaphthene	33	U	33.	170	ug/kg	94		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	72		34-94		
Anthracene	33	U	33.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	98		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	98		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	99		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	95		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	91		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170		170.	500	ug/kg	91		68-111		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	93		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	117*		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	90		79-112		
Carbazole	33	U	33.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	29		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	86		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	76		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	99		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	33	U	33.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	100		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	92		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	95		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	91		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	96		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	105		75-117		
Fluoranthene	33	U	33.	170	ug/kg	84		78-116		
Fluorene	33	U	33.	170	ug/kg	92		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	86		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	82		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	100		64-119		
Isophorone	33	U	33.	170	ug/kg	91		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	93		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	88		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	93		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	98		66-117		
Naphthalene	33	U	33.	170	ug/kg	89		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	94		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	92		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	97		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	95		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	67	U	67.	170	ug/kg	108		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	92		51-117		
Phenanthrene	33	U	33.	170	ug/kg	92		77-113		
Phenol	33	U	33.	170	ug/kg	96		58-112		
Pyrene	33	U	33.	170	ug/kg	112		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11124SLB026	Sample number(s): 6272807-6272814,6272816-6272818									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	100		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	8.8	J	6.0	18	ug/kg	117		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	101		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11124SLZ026	Sample number(s): 6272818									
Aniline	170 U		170.	500	ug/kg	75		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	106		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	105*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	103		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	94		79-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	66		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	80		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	73		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	97		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	100		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	102		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	95		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	99		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11119A34B	Sample number(s): 6272807,6272812-6272814,6272816-6272818									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11131A20A	Sample number(s): 6272819									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111200020A	Sample number(s): 6272817-6272818									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	110		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	83	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	85	82	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	100 U		100.	120	ug/kg	106		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	102		80-120		
PETN	800 U		800.	2,400	ug/kg	120		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111230008A	Sample number(s): 6272817-6272818									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	93		80-126		
Batch number: 111230023A	Sample number(s): 6272807-6272814,6272816-6272818									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	91	115*	36-106	22	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111240030A	Sample number(s): 6272807,6272812-6272814,6272816-6272818									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 111220001A	Sample number(s): 6272808-6272811,6272817-6272818									
Diethylene glycol	5.0	U	5.0	13	mg/kg	106		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	99		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 111230030A	Sample number(s): 6272817-6272818									
Ethanol	100 U		100.	500	ug/kg	97		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	94		68-129		
Batch number: 111230016A	Sample number(s): 6272817-6272818									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		
Batch number: 111231026001A	Sample number(s): 6272807-6272818									
Antimony	0.0600	U	0.0600	0.200	mg/kg	108		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	99		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	99		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chromium	0.120	U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.142	J	0.0660	0.400	mg/kg	99		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	93		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	94		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	97		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	94		83-110		
Vanadium	0.0876	J	0.0220	0.100	mg/kg	100		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111231026001B	Sample number(s): 6272807-6272818									
Selenium	0.0400	U	0.0400	0.400	mg/kg	103		83-111		
Batch number: 111231026001C	Sample number(s): 6272807-6272818									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 111231026001D	Sample number(s): 6272807-6272818									
Barium	0.108	U	0.108	0.400	mg/kg	96		81-111		
Batch number: 111235708001	Sample number(s): 6272807-6272818									
Aluminum	5.03	U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	98		78-110		
Calcium	10.6	J	6.13	20.0	mg/kg	104		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.43	J	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.224	J	0.0780	0.500	mg/kg	108		89-112		
Phosphorus	1.05	J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	107		86-110		
Tin	1.32	J	1.00	10.0	mg/kg	106		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	101		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	100		80-120		
Batch number: 111235711001	Sample number(s): 6272807-6272818									
Mercury	0.0027	U	0.0027	0.0948	mg/kg	93		88-123		
Batch number: 11127127203B	Sample number(s): 6272807-6272813,6272815-6272818									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11131102201A	Sample number(s): 6272817-6272818									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11131621201A	Sample number(s): 6272807-6272813,6272815-6272818									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11138243201A	Sample number(s): 6272807-6272813,6272815-6272818									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11123039401B	Sample number(s): 6272807-6272812,6272815-6272818									
18a pH by 9045C						100		95-105		
Batch number: 11123182101B	Sample number(s): 6272807-6272812,6272815-6272818									
32a OR Potential						99		98-102		
Batch number: 11129162401B	Sample number(s): 6272807-6272816									

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Quality Control Summary

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Reported: 05/27/11 at 11:56 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11133162401B	Sample number(s): 6272817-6272818								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111231AA	Sample number(s): 6272807-6272810,6272812-6272814,6272817-6272818 UNSPK: 6272812								
Acetone	97	101	15-210	2	30				
Benzene	105	109	55-143	1	30				
Bromobenzene	86	99	43-139	11	30				
Bromochloromethane	112	124	60-137	8	30				
Bromodichloromethane	90	93	53-136	1	30				
Bromoform	81	85	38-124	3	30				
Bromomethane	103	105	42-168	0	30				
2-Butanone	75	83	37-163	8	30				
n-Butylbenzene	67	87	30-146	23	30				
sec-Butylbenzene	78	98	33-157	19	30				
tert-Butylbenzene	70	88	41-152	21	30				
Carbon Tetrachloride	98	102	45-153	1	30				
Chlorobenzene	87	95	49-135	6	30				
Chloroethane	101	105	39-152	1	30				
2-Chloroethyl Vinyl Ether	71	79	32-139	9	30				
Chloroform	100	104	61-142	1	30				
Chloromethane	104	112	51-163	4	30				
2-Chlorotoluene	82	96	42-146	14	30				
4-Chlorotoluene	79	92	39-145	13	30				
Chlorotrifluoroethene	124	127	70-130	4	30				
1,2-Dibromo-3-chloropropane	67	77	30-139	11	30				
Dibromochloromethane	87	92	51-128	3	30				
1,2-Dibromoethane	89	98	54-129	6	30				
Dibromomethane	89	94	57-130	3	30				
1,2-Dichlorobenzene	74	86	36-133	13	30				
1,3-Dichlorobenzene	74	88	34-134	15	30				
1,4-Dichlorobenzene	75	88	35-136	14	30				
Dichlorodifluoromethane	94	100	26-151	3	30				
1,1-Dichloroethane	104	108	63-142	0	30				
1,2-Dichloroethane	90	94	68-131	2	30				
1,1-Dichloroethene	120	117	61-149	5	30				
cis-1,2-Dichloroethene	100	104	60-136	2	30				
trans-1,2-Dichloroethene	105	106	59-142	2	30				
1,2-Dichloropropane	99	103	62-135	1	30				
1,3-Dichloropropane	94	100	58-129	3	30				
2,2-Dichloropropane	90	95	53-147	2	30				
1,1-Dichloropropene	99	103	54-145	2	30				
cis-1,3-Dichloropropene	83	89	51-131	5	30				
trans-1,3-Dichloropropene	79	86	49-129	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	85	94	44-141	8	30				
Freon 113	131	128	56-156	5	30				
Freon 133a	109	110	61-131	6	30				
Hexachlorobutadiene	55	76	10-155	30	30				
2-Hexanone	75	87	32-160	13	30				
Isopropylbenzene	78	89	38-144	11	30				
p-Isopropyltoluene	73	91	29-152	19	30				
Methyl Tertiary Butyl Ether	83	88	55-129	3	30				
4-Methyl-2-pentanone	77	85	46-139	7	30				
Methylene Chloride	254*	258*	61-141	1	30				
n-Propylbenzene	87	104	39-157	15	30				
Styrene	77	85	35-134	8	30				
1,1,1,2-Tetrachloroethane	88	95	52-130	5	30				
1,1,2,2-Tetrachloroethane	84	95	40-152	10	30				
Tetrachloroethene	125	135	42-149	4	30				
Toluene	98	105	50-146	4	30				
1,2,3-Trichlorobenzene	53	63	10-140	16	30				
1,2,4-Trichlorobenzene	49	61	10-136	18	30				
1,1,1-Trichloroethane	100	105	64-142	2	30				
1,1,2-Trichloroethane	96	99	54-139	1	30				
Trichloroethene	99	104	53-144	2	30				
Trichlorofluoromethane	109	114	47-163	2	30				
1,2,3-Trichloropropane	91	103	45-154	10	30				
1,2,4-Trimethylbenzene	79	92	37-149	13	30				
1,3,5-Trimethylbenzene	81	96	38-150	15	30				
Vinyl Chloride	105	112	50-154	4	30				
m+p-Xylene	82	92	44-137	9	30				
o-Xylene	79	88	42-137	9	30				
Batch number: E111232AA	Sample number(s): 6272807-6272810,6272812-6272814,6272817-6272818 UNSPK: 6272812								
1,4-Dioxane	89	98	70-130	1	30				
Batch number: 11123SLF026	Sample number(s): 6272817-6272818 UNSPK: P262830								
N-Nitrosodimethylamine	53*	60*	70-130	10	30				
Batch number: 11124SLA026	Sample number(s): 6272807-6272814,6272816-6272817 UNSPK: 6272812								
Acenaphthene	91	99	75-115	8	30				
Acenaphthylene	94	101	81-110	7	30				
Aniline	66	79	35-95	19	30				
Anthracene	91	99	75-115	8	30				
Benzidine	36	54	35-141	40*	30				
Benzo(a)anthracene	94	100	65-122	5	30				
Benzo(a)pyrene	98	95	57-126	4	30				
Benzo(b)fluoranthene	99	96	59-125	3	30				
Benzo(g,h,i)perylene	100	101	59-127	1	30				
Benzo(k)fluoranthene	100	94	56-132	7	30				
Benzoic acid	62	84	10-173	30	30				
Benzyl alcohol	91	94	67-115	3	30				
4-Bromophenyl-phenylether	87	89	67-129	2	30				
Butylbenzylphthalate	111	114	73-134	2	30				
Di-n-butylphthalate	90	94	67-123	4	30				
Carbazole	95	101	64-120	6	30				
4-Chloro-3-methylphenol	89	96	76-110	7	30				

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Reported: 05/27/11 at 11:56 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloroaniline	48	63	23-95	28	30				
bis(2-Chloroethoxy)methane	87	89	75-104	2	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	82	87	55-142	5	30				
2-Chloronaphthalene	88	77	50-141	14	30				
2-Chlorophenol	93	100	73-121	7	30				
4-Chlorophenyl-phenylether	89	95	80-109	6	30				
Chrysene	98	100	62-128	2	30				
Dibenz(a,h)anthracene	100	100	65-125	0	30				
Dibenzofuran	90	102	71-112	12	30				
1,2-Dichlorobenzene	85	90	66-108	6	30				
1,3-Dichlorobenzene	83	90	63-109	8	30				
1,4-Dichlorobenzene	84	87	70-100	3	30				
3,3'-Dichlorobenzidine	63	66	16-119	5	30				
2,4-Dichlorophenol	88	96	78-117	8	30				
Diethylphthalate	92	99	66-118	7	30				
2,4-Dimethylphenol	92	96	78-110	3	30				
3,5-Dimethylphenol	88	97	70-130	10	30				
Dimethylphthalate	91	97	64-118	6	30				
4,6-Dinitro-2-methylphenol	92	96	24-116	3	30				
2,4-Dinitrophenol	80	100	20-143	21	30				
2,4-Dinitrotoluene	100	112	73-113	11	30				
2,6-Dinitrotoluene	91	99	69-123	8	30				
1,2-Diphenylhydrazine	93	98	71-129	5	30				
bis(2-Ethylhexyl)phthalate	104	108	63-122	3	30				
Fluoranthene	89	96	73-112	7	30				
Fluorene	87	97	77-111	10	30				
Hexachlorobenzene	86	98	77-114	12	30				
Hexachlorobutadiene	89	94	62-120	5	30				
Hexachlorocyclopentadiene	71	86	10-153	18	30				
Hexachloroethane	76	84	57-109	10	30				
Indeno(1,2,3-cd)pyrene	93	98	61-126	5	30				
Isophorone	92	96	73-102	4	30				
1-Methylnaphthalene	90	97	73-112	7	30				
2-Methylnaphthalene	87	91	76-114	4	30				
2-Methylphenol	90	91	75-111	1	30				
4-Methylphenol	93	103	71-111	11	30				
Naphthalene	88	93	72-116	4	30				
2-Nitroaniline	88	97	67-125	9	30				
3-Nitroaniline	87	98	59-122	12	30				
4-Nitroaniline	69	80	52-112	14	30				
Nitrobenzene	91	99	72-106	8	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	95	93	54-113	2	30				
N-Nitroso-di-n-propylamine	82	88	60-116	7	30				
N-Nitrosodimethylamine	87	83	47-116	6	30				
N-Nitrosodiphenylamine	90	93	86-145	3	30				
Di-n-octylphthalate	110	105	56-126	5	30				
Pentachlorophenol	86	94	28-127	8	30				
Phenanthrene	91	96	65-125	5	30				
Phenol	91	98	58-126	6	30				
Pyrene	105	107	74-126	2	30				
1,2,4-Trichlorobenzene	89	93	72-115	4	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	93	94	78-109	0	30				
2,4,6-Trichlorophenol	90	100	77-115	11	30				
Batch number: 11124SLB026	Sample number(s): 6272807-6272814,6272816-6272818 UNSPK: 6272812								
Acenaphthene	89	87	63-105	2	30				
Acenaphthylene	92	88	67-114	4	30				
Anthracene	96	96	60-122	1	30				
Benzo(a)anthracene	99	104	59-128	5	30				
Benzo(a)pyrene	102	105	45-138	4	30				
Benzo(b)fluoranthene	98	104	43-155	6	30				
Benzo(g,h,i)perylene	90	99	33-141	9	30				
Benzo(k)fluoranthene	100	105	42-144	5	30				
Butylbenzylphthalate	108	118	57-173	9	30				
Di-n-butylphthalate	114	116	65-148	2	30				
Chrysene	94	99	48-134	5	30				
Dibenz(a,h)anthracene	99	106	22-133	8	30				
Diethylphthalate	106	102	70-136	4	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	127	132	39-167	4	30				
Fluoranthene	99	103	26-166	4	30				
Fluorene	94	96	66-122	2	30				
Indeno(1,2,3-cd)pyrene	97	105	21-143	8	30				
1-Methylnaphthalene	93	90	72-123	3	30				
2-Methylnaphthalene	84	81	64-103	3	30				
Naphthalene	89	85	61-102	5	30				
N-Nitrosodimethylamine	89	77	48-113	14	30				
Di-n-octylphthalate	92	106	40-192	11	30				
Phenanthrene	90	91	12-165	1	30				
Pyrene	90	95	15-153	5	30				
Batch number: 11124SLZ026	Sample number(s): 6272818 UNSPK: P24LZUS								
Aniline	58	76	35-95	26	30				
Benzidine	42	59	35-141	35*	30				
Benzoic acid	50	63	10-173	22	30				
Benzyl alcohol	98	98	67-115	1	30				
4-Bromophenyl-phenylether	90	94	67-129	4	30				
Carbazole	91	95	64-120	4	30				
4-Chloro-3-methylphenol	96	97	76-110	1	30				
4-Chloroaniline	57	63	23-95	10	30				
bis(2-Chloroethoxy)methane	92	97	75-104	5	30				
bis(2-Chloroethyl)ether	95	97	60-116	2	30				
bis(2-Chloroisopropyl)ether	89	94	55-142	5	30				
2-Chloronaphthalene	68	70	50-141	3	30				
2-Chlorophenol	98	97	73-121	1	30				
4-Chlorophenyl-phenylether	89	95	80-109	6	30				
Dibenzofuran	92	94	71-112	2	30				
1,2-Dichlorobenzene	86	88	66-108	2	30				
1,3-Dichlorobenzene	83	88	63-109	5	30				
1,4-Dichlorobenzene	83	86	70-100	3	30				
3,3'-Dichlorobenzidine	40	55	16-119	31*	30				
2,4-Dichlorophenol	95	96	78-117	1	30				
2,4-Dimethylphenol	95	97	78-110	2	30				
3,5-Dimethylphenol	97	101	70-130	3	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4,6-Dinitro-2-methylphenol	43	50	24-116	15	30				
2,4-Dinitrophenol	24	30	20-143	21	30				
2,4-Dinitrotoluene	91	96	73-113	4	30				
2,6-Dinitrotoluene	93	95	69-123	3	30				
1,2-Diphenylhydrazine	104	105	71-129	1	30				
Hexachlorobenzene	92	93	77-114	1	30				
Hexachlorobutadiene	88	92	62-120	4	30				
Hexachlorocyclopentadiene	36	48	10-153	30	30				
Hexachloroethane	86	89	57-109	4	30				
Isophorone	92	96	73-102	4	30				
2-Methylphenol	96	97	75-111	1	30				
4-Methylphenol	92	95	71-111	3	30				
2-Nitroaniline	93	96	67-125	3	30				
3-Nitroaniline	92	97	59-122	4	30				
4-Nitroaniline	68	70	52-112	2	30				
Nitrobenzene	93	97	72-106	3	30				
2-Nitrophenol	96	96	74-115	0	30				
4-Nitrophenol	80	83	54-113	3	30				
N-Nitroso-di-n-propylamine	94	98	60-116	4	30				
N-Nitrosodiphenylamine	96	97	86-145	1	30				
Pentachlorophenol	63	65	28-127	3	30				
Phenol	94	94	58-126	0	30				
1,2,4-Trichlorobenzene	90	93	72-115	3	30				
2,4,5-Trichlorophenol	90	94	78-109	4	30				
2,4,6-Trichlorophenol	92	96	77-115	4	30				
Batch number: 11119A34B	Sample number(s): 6272807,6272812-6272814,6272816-6272818 UNSPK: 6272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111200020A	Sample number(s): 6272817-6272818 UNSPK: P264845								
4-Amino-2,6-Dinitrotoluene	107	108	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	100	100	80-131	0	50				
2,6-Dinitrotoluene	103	105	80-127	2	50				
HMX	93	94	63-128	1	50				
Nitrobenzene	103	99	80-125	3	50				
Nitroglycerin	95	95	80-120	1	50				
2-Nitrotoluene	98	99	80-122	1	50				
3-Nitrotoluene	101	103	72-119	2	50				
4-Nitrotoluene	97	99	80-125	2	50				
PETN	119	126*	80-121	6	50				
RDX	96	99	75-129	3	50				
Tetryl	84	88	55-174	4	50				
1,3,5-Trinitrobenzene	100	99	82-126	1	50				
2,4,6-Trinitrotoluene	105	105	82-130	0	50				
Batch number: 111230008A	Sample number(s): 6272817-6272818 UNSPK: 6272817								
25a Formaldehyde 8315A	90	88	80-120	2	50				
Batch number: 111230023A	Sample number(s): 6272807-6272814,6272816-6272818 UNSPK: 6272812								
PCB-1016	110	120	29-146	9	50				
PCB-1260	119	139	39-149	15	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111240030A	Sample number(s): 6272807,6272812-6272814,6272816-6272818 UNSPK: 6272812								
EFH (C12-C14)	87	86	49-123	1	20				
EFH (C15-C20)	116	103	49-123	12	20				
EFH (C21-C30)	299*	52	49-123	102*	20				
EFH (C30 - C40)	393*	-9*	49-123	124*	20				
EFH (C8-C11)	54	53	49-123	2	20				
Batch number: 111220001A	Sample number(s): 6272808-6272811,6272817-6272818 UNSPK: 6272808								
Diethylene glycol	63	86	59-109	32*	20				
Ethylene glycol	75	83	63-107	10	20				
Propylene glycol	79	83	63-107	4	20				
Batch number: 111230030A	Sample number(s): 6272817-6272818 UNSPK: 6272818								
Ethanol	83	83	48-130	0	20				
Isopropanol	83	83	12-149	0	20				
Methanol	80	80	43-138	0	20				
Batch number: 111230016A	Sample number(s): 6272817-6272818 UNSPK: P264819								
m-Terphenyl	78	79	75-125	1	20				
o-Terphenyl	96	96	75-125	0	20				
p-Terphenyl	92	89	75-125	3	20				
Batch number: 111231026001A	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Antimony	43*	43*	75-125	1	20	0.253	0.186 J	30* (1)	20
Arsenic	78	94	75-125	5	20	5.00	5.69	13	20
Beryllium	73*	84	75-125	7	20	0.668	0.695	4	20
Cadmium	80	85	75-125	6	20	0.233	0.254	9 (1)	20
Chromium	87	87	75-125	0	20	26.2	27.4	5	20
Cobalt	87	97	75-125	10	20	8.95	9.50	6	20
Copper	84	108	75-125	11	20	13.8	14.8	7	20
Lead	90	101	75-125	3	20	7.77	8.12	4	20
Nickel	79	118	75-125	15	20	17.5	19.7	12	20
Silver	85	96	75-125	13	20	0.0232 J	0.0475 J	69* (1)	20
Thallium	84	107	75-125	15	20	0.255	0.329	25* (1)	20
Vanadium	121 (2)	126 (2)	75-125	1	20	46.4	49.6	7	20
Zinc	35 (2)	121 (2)	75-125	13	20	61.0	59.3	3	20
Batch number: 111231026001B	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Selenium	74*	89	75-125	17	20	0.210 J	0.146 J	36* (1)	20
Batch number: 111231026001C	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Molybdenum	85	96	75-125	13	20	0.300	0.339	12 (1)	20
Batch number: 111231026001D	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Barium	90 (2)	120 (2)	75-125	3	20	108	110	1	20
Batch number: 111235708001	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Aluminum	3417 (2)	2582 (2)	75-125	5	20	26,700	27,400	3	20
Boron	103	101	84-115	2	20	6.31	7.22	14 (1)	20
Calcium	998 (2)	577 (2)	75-125	14	20	8,650	11,300	27*	20
Iron	1649	704 (2)	75-125	3	20	31,700	30,400	4	20

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Analysis Name	MS %REC (2)	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lithium	103	100	82-114	2	20	24.0	24.5	2	20
Magnesium	390 (2)	243 (2)	75-125	4	20	6,590	6,590	0	20
Manganese	49 (2)	84 (2)	75-125	4	20	412	400	3	20
Phosphorus	86	96	75-125	3	20	297	281	6	20
Potassium	144 (2)	137 (2)	75-125	1	20	4,390	4,300	2	20
Sodium	95	93	75-125	1	20	94.3 J	92.6 J	2 (1)	20
Strontium	105	100	75-115	3	20	38.0	39.9	5	20
Tin	90	90	80-110	0	20	2.49 J	2.59 J	4 (1)	20
Titanium	554 (2)	434 (2)	75-125	8	20	1,070	1,200	11	20
Zirconium	95	93	75-125	2	20	5.40	6.13	13 (1)	20
Batch number: 111235711001	Sample number(s): 6272807-6272818 UNSPK: 6272812 BKG: 6272812								
Mercury	98	94	80-120	6	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 11127127203B	Sample number(s): 6272807-6272813,6272815-6272818 UNSPK: 6272812 BKG: 6272812								
7a Perchlorate EPA 314.0	87		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11131102201A	Sample number(s): 6272817-6272818 UNSPK: 6272817 BKG: 6272817								
17a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11131621201A	Sample number(s): 6272807-6272813,6272815-6272818 UNSPK: 6272812 BKG: 6272812								
11a Anions by 300.0 - Fluoride	83		80-120			1.3	1.6	20 (1)	20
11a Anions by 300.0 - Nitrate	103		80-120			2.0	2.0	3 (1)	20
Batch number: 11138243201A	Sample number(s): 6272807-6272813,6272815-6272818 UNSPK: 6272812 BKG: 6272812								
3a Cr VI by EPA 7199	92		75-125			0.47 J	0.63 J	29* (1)	20
Batch number: 11123039401B	Sample number(s): 6272807-6272812,6272815-6272818 BKG: 6272812								
18a pH by 9045C						7.89	7.90	0	1
Batch number: 11123182101B	Sample number(s): 6272807-6272812,6272815-6272818 BKG: 6272812								
32a OR Potential						412	413	0	6
Batch number: 11129162401B	Sample number(s): 6272807-6272816 BKG: 6272812								
28a Moisture Content by 160.3						16.5	16.4	1	20
Moisture Content by 160.3						16.5	16.4	1	20
Moisture Content by 160.3						16.5	16.4	1	20
Batch number: 11133162401B	Sample number(s): 6272817-6272818 BKG: P266014								
Moisture Content by 160.3						6.4	6.0	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111231AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Surrogate Quality Control

6272807	93	98	104	84
6272808	93	95	102	89
6272809	93	98	102	88
6272810	92	96	102	88
6272812	96	104	101	87
6272813	93	96	106	96
6272814	94	99	107	94
6272817	93	95	102	88
6272818	93	97	101	90
Blank	94	103	100	90
LCS	95	107	102	97
MS	93	96	106	96
MSD	94	99	107	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111222AA

	Toluene-d8
6272819	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111232AA

	Toluene-d8
6272807	97
6272808	98
6272809	97
6272810	98
6272812	97
6272813	97
6272814	97
6272817	97
6272818	97
Blank	98
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6272819	105	103	97	98
Blank	104	102	98	99
LCS	106	102	99	101
LCSD	106	101	98	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Surrogate Quality Control

Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11123SLF026

	N-Nitrosodimethylamine-d6
6272817	93
6272818	102
Blank	97
LCS	93
MS	110
MSD	102

Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11124SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6272807	68	65	63	61	66	70
6272808	93	89	84	87	88	96
6272809	85	83	79	82	81	91
6272810	90	89	78	83	84	93
6272811	71	70	66	66	66	76
6272812	91	88	83	88	90	96
6272813	87	88	83	86	85	90
6272814	90	89	88	89	89	90
6272816	86	84	85	82	84	85
6272817	81	76	91	84	85	86
Blank	91	91	92	83	89	92
LCS	92	93	84	87	87	96
MS	87	88	83	86	85	90
MSD	90	89	88	89	89	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11124SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6272807	104	92	98
6272808	103	92	98
6272809	105	94	98
6272810	102	92	98
6272811	103	91	100
6272812	96	89	97
6272813	110	93	93
6272814	106	89	99
6272816	97	87	92
6272817	101	89	96
6272818	105	93	97
Blank	101	97	103
LCS	118	100	104
MS	110	93	93
MSD	106	89	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Surrogate Quality Control

Limits:	40-130	45-130	45-135			

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11124SLZ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6272818	91	88	75	82	82	86
Blank	88	86	79	84	85	79
LCS	101	99	87	91	89	84
MS	94	92	77	86	85	80
MSD	95	92	80	88	86	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34B

	Trifluorotoluene-F
6272807	74
6272812	77
6272813	87
6272814	79
6272816	80
6272817	81
6272818	74
Blank	80
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11131A20A

	Trifluorotoluene-F
6272819	73
Blank	64
LCS	116
LCSD	116
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111200020A

	2-Nitro-m-xylene
6272817	117
6272818	119
Blank	87
LCS	123
LCSD	122
MS	147*
MSD	128

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111230008A

	Butyraldehyde
6272817	114
6272818	118
Blank	97
LCS	97
MS	82
MSD	79

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111230023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6272807	94	96
6272808	149*	135*
6272809	126	128*
6272810	98	103
6272811	169*	176*
6272812	108	110
6272813	107	110
6272814	119	123*
6272816	177*	171*
6272817	99	101
6272818	108	116
Blank	111	135*
LCS	93	99
LCSD	129	142*
MS	107	110
MSD	119	123*
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111220001A

	Tetramethylene glycol
6272808	102
6272809	58
6272810	68
6272811	56
6272817	93
6272818	111
Blank	98
LCS	111
MS	111
MSD	89

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111230016A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244632
Reported: 05/27/11 at 11:56 AM

Surrogate Quality Control

	n-Triacontane-d62
6272817	74
6272818	77
Blank	78
LCS	77
MS	89
MSD	81
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111230030A

	Acetone
6272817	73
6272818	85
Blank	89
LCS	90
MS	90
MSD	90
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111240030A

	Chlorobenzene	Orthoterphenyl
6272807	70	86
6272812	64	78
6272813	79	97
6272814	77	95
6272816	62	85
6272817	57	78
6272818	72	92
Blank	80	96
LCS	82	100
MS	79	97
MSD	77	95
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 QP# 1244632 Sample# 6272807-19

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	5-Encores										X	X	X										
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-013-SA8N-SB-2.5	04.29.11	1204	SOIL	NONE	4-Encores										X	X											
SL-013-SA8N-SB-2.0-3.0	04.29.11	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-014-SA8N-SB-4.5	04.29.11	1410	SOIL	NONE	4-Encores										X	X											
SL-014-SA8N-SB-4.0-5.0	04.29.11	1412	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-017-SA8N-SB-4.5	04.29.11	1520	SOIL	NONE	4-Encores										X	X											
SL-017-SA8N-SB-4.0-5.0	04.29.11	1522	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-017-SA8N-SB-7.0-8.0	04.29.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-040-SA8N-SB-4.5MS	04.29.11	0910	SOIL	NONE	15-Encores										X	X	X										MS/MSD sample
SL-040-SA8N-SB-4.0-5.0MS	04.29.11	0915	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X									MS/MSD sample
SL-040-SA8N-SB-9.5	04.29.11	0918	SOIL	NONE	1- Encore												X										
SL-040-SA8N-SB-9.0-10.0	04.29.11	0924	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-049-SA8N-SB-4.5	04.29.11	1115	SOIL	NONE	5-Encores										X	X	X										
SL-049-SA8N-SB-4.0-5.0	04.29.11	1119	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-049-SA8N-SB-8.5	04.29.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-049-SA8N-SB-8.0-9.0	04.29.11	1124	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-042911	04.29.11	1430	SOIL	NONE	4-40 mL vials																						

Relinquished by: (*Signature*)	Date/Time 04/29/2011 / 1700	Received for Laboratory by: (*Signature*) 4/30/11 0945	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1441 7620; 8695 1441 7630 8695 1441 7641	

Nicole Maljovec 13013 / 1244632 / 0272807-19

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Monday, May 02, 2011 1:14 PM
To: Nicole Maljovec
Cc: Hartman, Pamela; Burgesser, Todd; Zakowski, Cherie
Subject: RE: COCs for 4.28.11 and 4.29.11- TB question for 4/29
Attachments: COC 04 29 11 revised.xlsx

YIKES – both Pam and I missed that! It should be all three analyses, VOCs, 1,4-dioxane, and TPH-GRO. See revised COC attached.

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Monday, May 02, 2011 8:24 AM
To: Bloisa, Peggy
Cc: Burgesser, Todd; Zakowski, Cherie; Laura Rainey
Subject: RE: COCs for 4.28.11 and 4.29.11- TB question for 4/29

Hi Peggy,
Can you confirm the trip blank analyses for the 4/29/11 samples? Nothing is marked on the COC.

Thanks,
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, April 29, 2011 7:36 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Laura Rainey
Subject: COCs for 4.28.11 and 4.29.11

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

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Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

CHAIN OF CUSTODY RECORD

13013/1244632/6272807-19

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	5-Encores										X	X	X										
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
~~SL-013-SA8N-SB-2.5~~	~~04.29.11~~	~~1204~~	~~SOIL~~	~~NONE~~	~~4-Encores~~										~~X~~	~~X~~											
~~SL-013-SA8N-SB-2.0-3.0~~	~~04.29.11~~	~~1206~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~												~~X~~		
SL-014-SA8N-SB-4.5	04.29.11	1410	SOIL	NONE	~~4-Encores~~ 3 Encores										X	X											
SL-014-SA8N-SB-4.0-5.0	04.29.11	1412	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
~~SL-017-SA8N-SB-4.5~~	~~04.29.11~~	~~1520~~	~~SOIL~~	~~NONE~~	~~4-Encores~~										~~X~~	~~X~~											
~~SL-017-SA8N-SB-4.0-5.0~~	~~04.29.11~~	~~1522~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~												~~X~~		
~~SL-017-SA8N-SB-7.0-8.0~~	~~04.29.11~~	~~1525~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~												~~X~~		
SL-040-SA8N-SB-4.5MS	04.29.11	0910	SOIL	NONE	15-Encores										X	X	X										MS/MSD sample
SL-040-SA8N-SB-4.0-5.0MS	04.29.11	0915	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X									MS/MSD sample
SL-040-SA8N-SB-9.5	04.29.11	0918	SOIL	NONE	1- Encore												X										
SL-040-SA8N-SB-9.0-10.0	04.29.11	0924	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
~~SL-049-SA8N-SB-4.5~~	~~04.29.11~~	~~1115~~	~~SOIL~~	~~NONE~~	~~5-Encores~~										~~X~~	~~X~~	~~X~~										
~~SL-049-SA8N-SB-4.0-5.0~~	~~04.29.11~~	~~1119~~	~~SOIL~~	~~NONE~~	~~4-16 oz Jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
~~SL-049-SA8N-SB-8.5~~	~~04.29.11~~	~~1120~~	~~SOIL~~	~~NONE~~	~~5-Encores~~										~~X~~	~~X~~	~~X~~										
~~SL-049-SA8N-SB-8.0-9.0~~	~~04.29.11~~	~~1124~~	~~SOIL~~	~~NONE~~	~~4-16 oz. jars~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
TB-042911	04.29.11	1430	SOIL	NONE	4-40 mL vials										X	X	X										

Amended COC

Relinquished by: (*Signature*)	**Date/Time** 04/29/2011 / 1700	**Received for Laboratory by: (*Signature*)**
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1441 7620; 8695 1441 7630 8695 1441 7641

Laboratory: Lancaster Laboratories, Inc.

Only 3 encores from SL-014-SA8N-SB-4.5 were received. NLM 5/2/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/30/2011
Group Number: 1244635
SDG: DX078
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP06-SA8N-QC-042911 Soil	6272840
SL-013-SA8N-SB-2.0-3.0 Soil	6272841
SL-014-SA8N-SB-4.0-5.0 Soil	6272842
SL-017-SA8N-SB-4.0-5.0 Soil	6272843
SL-017-SA8N-SB-7.0-8.0 Soil	6272844
SL-040-SA8N-SB-4.0-5.0 Soil	6272845
SL-040-SA8N-SB-4.0-5.0MS Soil	6272846
SL-040-SA8N-SB-4.0-5.0MSD Soil	6272847
SL-040-SA8N-SB-9.0-10.0 Soil	6272848
SL-049-SA8N-SB-4.0-5.0 Soil	6272849
SL-049-SA8N-SB-8.0-9.0 Soil	6272850

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272840
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7801 SDG#: DX078-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272840
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7801 SDG#: DX078-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0248	U	0.0248	1.19	1
11031	12378-PeCDD	40321-76-4	0.0498	JB	0.0242	5.95	1
11031	123478-HxCDD	39227-28-6	0.0233	U	0.0233	5.95	1
11031	123678-HxCDD	57653-85-7	0.104	JBQ	0.0245	5.95	1
11031	123789-HxCDD	19408-74-3	0.253	JB	0.0236	5.95	1
11031	1234678-HpCDD	35822-46-9	0.469	JB	0.0296	5.95	1
11031	OCDD	3268-87-9	1.78	JB	0.0459	11.9	1
11031	2378-TCDF	51207-31-9	0.0177	U	0.0177	1.19	1
11031	12378-PeCDF	57117-41-6	0.0643	JBQ	0.0122	5.95	1
11031	23478-PeCDF	57117-31-4	0.0763	JB	0.0125	5.95	1
11031	123478-HxCDF	70648-26-9	0.0247	JBQ	0.0171	5.95	1
11031	123678-HxCDF	57117-44-9	0.0155	U	0.0155	5.95	1
11031	123789-HxCDF	72918-21-9	0.403	JB	0.0187	5.95	1
11031	234678-HxCDF	60851-34-5	0.0531	JBQ	0.0165	5.95	1
11031	1234678-HpCDF	67562-39-4	0.111	JB	0.0132	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0465	JBQ	0.0205	5.95	1
11031	OCDF	39001-02-0	0.195	JB	0.0335	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272840
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7801 SDG#: DX078-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP06-SA8N-QC-042911 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA8N-QC-042911

LLI Sample # SW 6272840
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:30

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7801 SDG#: DX078-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/10/2011 20:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272841
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7802 SDG#: DX078-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272841
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7802 SDG#: DX078-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0241	U	0.0241	1.13	1
11031	12378-PeCDD	40321-76-4	0.0413	JB	0.0263	5.65	1
11031	123478-HxCDD	39227-28-6	0.0318	U	0.0318	5.65	1
11031	123678-HxCDD	57653-85-7	0.165	JBQ	0.0338	5.65	1
11031	123789-HxCDD	19408-74-3	0.115	JB	0.0326	5.65	1
11031	1234678-HpCDD	35822-46-9	4.59	JB	0.0898	5.65	1
11031	OCDD	3268-87-9	49.1	B	0.0401	11.3	1
11031	2378-TCDF	51207-31-9	0.0365	U	0.0365	1.13	1
11031	12378-PeCDF	57117-41-6	0.380	JB	0.0282	5.65	1
11031	23478-PeCDF	57117-31-4	0.156	JB	0.0302	5.65	1
11031	123478-HxCDF	70648-26-9	0.629	JB	0.0340	5.65	1
11031	123678-HxCDF	57117-44-9	0.0974	JQ	0.0300	5.65	1
11031	123789-HxCDF	72918-21-9	0.0981	JB	0.0432	5.65	1
11031	234678-HxCDF	60851-34-5	0.0733	JB	0.0325	5.65	1
11031	1234678-HpCDF	67562-39-4	0.598	JB	0.0244	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0577	JBQ	0.0457	5.65	1
11031	OCDF	39001-02-0	1.11	JB	0.0433	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-013-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272841
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7802 SDG#: DX078-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SB-2.0-3.0

LLI Sample # SW 6272841
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 12:06

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7802 SDG#: DX078-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/10/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272842
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7803 SDG#: DX078-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272842
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7803 SDG#: DX078-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0227 U	0.0227	1.14	1
11031	12378-PeCDD	40321-76-4	0.0290 JBQ	0.0208	5.69	1
11031	123478-HxCDD	39227-28-6	0.0193 JBQ	0.0152	5.69	1
11031	123678-HxCDD	57653-85-7	0.0288 JBQ	0.0157	5.69	1
11031	123789-HxCDD	19408-74-3	0.0151 U	0.0151	5.69	1
11031	1234678-HpCDD	35822-46-9	0.231 JBQ	0.0238	5.69	1
11031	OCDD	3268-87-9	0.803 JB	0.0339	11.4	1
11031	2378-TCDF	51207-31-9	0.0182 U	0.0182	1.14	1
11031	12378-PeCDF	57117-41-6	0.0110 U	0.0110	5.69	1
11031	23478-PeCDF	57117-31-4	0.0556 JBQ	0.0120	5.69	1
11031	123478-HxCDF	70648-26-9	0.0188 JBQ	0.0121	5.69	1
11031	123678-HxCDF	57117-44-9	0.0340 JQ	0.0102	5.69	1
11031	123789-HxCDF	72918-21-9	0.0294 JBQ	0.0140	5.69	1
11031	234678-HxCDF	60851-34-5	0.0323 JBQ	0.0109	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0807 JBQ	0.00928	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0394 JBQ	0.0172	5.69	1
11031	OCDF	39001-02-0	0.132 JBQ	0.0338	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272842
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7803 SDG#: DX078-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SB-4.0-5.0

LLI Sample # SW 6272842
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 14:12

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7803 SDG#: DX078-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/10/2011 22:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272843
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7804 SDG#: DX078-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272843
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7804 SDG#: DX078-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0269 U	0.0269	1.08	1
11031	12378-PeCDD	40321-76-4	0.0240 U	0.0240	5.38	1
11031	123478-HxCDD	39227-28-6	0.0210 U	0.0210	5.38	1
11031	123678-HxCDD	57653-85-7	0.0262 JBQ	0.0216	5.38	1
11031	123789-HxCDD	19408-74-3	0.0308 JBQ	0.0207	5.38	1
11031	1234678-HpCDD	35822-46-9	0.474 JB	0.0342	5.38	1
11031	OCDD	3268-87-9	2.29 JB	0.0560	10.8	1
11031	2378-TCDF	51207-31-9	0.0231 U	0.0231	1.08	1
11031	12378-PeCDF	57117-41-6	0.0221 JBQ	0.0147	5.38	1
11031	23478-PeCDF	57117-31-4	0.0848 JB	0.0164	5.38	1
11031	123478-HxCDF	70648-26-9	0.0416 JBQ	0.0155	5.38	1
11031	123678-HxCDF	57117-44-9	0.0214 JQ	0.0129	5.38	1
11031	123789-HxCDF	72918-21-9	0.0594 JBQ	0.0183	5.38	1
11031	234678-HxCDF	60851-34-5	0.0811 JBQ	0.0134	5.38	1
11031	1234678-HpCDF	67562-39-4	0.136 JB	0.0121	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0352 JBQ	0.0225	5.38	1
11031	OCDF	39001-02-0	0.234 JBQ	0.0355	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	53	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	54	24 - 185
13C12-23478-PeCDF	47	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272843
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7804 SDG#: DX078-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-4.0-5.0

LLI Sample # SW 6272843
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:22

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7804 SDG#: DX078-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/10/2011 23:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272844
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7805 SDG#: DX078-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272844
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7805 SDG#: DX078-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0225	U	0.0225	1.13	1
11031	12378-PeCDD	40321-76-4	0.0210	U	0.0210	5.65	1
11031	123478-HxCDD	39227-28-6	0.0166	U	0.0166	5.65	1
11031	123678-HxCDD	57653-85-7	0.0174	U	0.0174	5.65	1
11031	123789-HxCDD	19408-74-3	0.0168	U	0.0168	5.65	1
11031	1234678-HpCDD	35822-46-9	0.181	JB	0.0206	5.65	1
11031	OCDD	3268-87-9	0.468	JBQ	0.0277	11.3	1
11031	2378-TCDF	51207-31-9	0.0190	U	0.0190	1.13	1
11031	12378-PeCDF	57117-41-6	0.0260	JBQ	0.0103	5.65	1
11031	23478-PeCDF	57117-31-4	0.0541	JBQ	0.0117	5.65	1
11031	123478-HxCDF	70648-26-9	0.0386	JB	0.0104	5.65	1
11031	123678-HxCDF	57117-44-9	0.0293	JQ	0.00888	5.65	1
11031	123789-HxCDF	72918-21-9	0.0411	JBQ	0.0113	5.65	1
11031	234678-HxCDF	60851-34-5	0.0265	JBQ	0.00993	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0860	JB	0.00958	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0276	JBQ	0.0165	5.65	1
11031	OCDF	39001-02-0	0.0900	JBQ	0.0264	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	54	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	50	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	58	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272844
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7805 SDG#: DX078-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SB-7.0-8.0

LLI Sample # SW 6272844
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 15:25

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7805 SDG#: DX078-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/11/2011 00:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272845
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272845
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0422	JBQ	0.0257	1.19	1
11031	12378-PeCDD	40321-76-4	0.269	JB	0.0286	5.94	1
11031	123478-HxCDD	39227-28-6	0.138	JB	0.0253	5.94	1
11031	123678-HxCDD	57653-85-7	0.180	JBQ	0.0268	5.94	1
11031	123789-HxCDD	19408-74-3	0.303	JBQ	0.0260	5.94	1
11031	1234678-HpCDD	35822-46-9	0.502	JBQ	0.0346	5.94	1
11031	OCDD	3268-87-9	2.43	JB	0.0564	11.9	1
11031	2378-TCDF	51207-31-9	0.0498	JBQ	0.0285	1.19	1
11031	12378-PeCDF	57117-41-6	0.299	JB	0.0165	5.94	1
11031	23478-PeCDF	57117-31-4	0.308	JB	0.0219	5.94	1
11031	123478-HxCDF	70648-26-9	0.194	JBQ	0.0265	5.94	1
11031	123678-HxCDF	57117-44-9	0.196	JQ	0.0224	5.94	1
11031	123789-HxCDF	72918-21-9	0.457	JB	0.0285	5.94	1
11031	234678-HxCDF	60851-34-5	0.170	JB	0.0296	5.94	1
11031	1234678-HpCDF	67562-39-4	0.186	JB	0.0158	5.94	1
11031	1234789-HpCDF	55673-89-7	0.128	JB	0.0273	5.94	1
11031	OCDF	39001-02-0	0.293	JBQ	0.0388	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	36	25 - 164
13C12-12378-PeCDD	38	25 - 181
13C12-123478-HxCDD	37	32 - 141
13C12-123678-HxCDD	38	28 - 130
13C12-123789-HxCDD	38	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	37	17 - 157
13C12-2378-TCDF	28	24 - 169
13C12-12378-PeCDF	40	24 - 185
13C12-23478-PeCDF	29	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	29	28 - 136
13C12-123789-HxCDF	33	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	32	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	35	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272845
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272845
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 04:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272846
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272846
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.8	B	0.0461	1.19	1
11031	12378-PeCDD	40321-76-4	112	B	0.0484	5.93	1
11031	123478-HxCDD	39227-28-6	111	B	0.0384	5.93	1
11031	123678-HxCDD	57653-85-7	110	B	0.0408	5.93	1
11031	123789-HxCDD	19408-74-3	111	B	0.0392	5.93	1
11031	1234678-HpCDD	35822-46-9	110	B	0.0756	5.93	1
11031	OCDD	3268-87-9	226	B	0.0540	11.9	1
11031	2378-TCDF	51207-31-9	24.2	B	0.0549	1.19	1
11031	12378-PeCDF	57117-41-6	115	B	0.0420	5.93	1
11031	23478-PeCDF	57117-31-4	112	B	0.0418	5.93	1
11031	123478-HxCDF	70648-26-9	114	B	0.113	5.93	1
11031	123678-HxCDF	57117-44-9	112		0.101	5.93	1
11031	123789-HxCDF	72918-21-9	111	B	0.109	5.93	1
11031	234678-HxCDF	60851-34-5	114	B	0.102	5.93	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0534	5.93	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0747	5.93	1
11031	OCDF	39001-02-0	224	B	0.0644	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-040-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272846
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272846
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 05:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272847
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272847
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.4	B	0.0586	1.15	1
11031	12378-PeCDD	40321-76-4	111	B	0.0408	5.74	1
11031	123478-HxCDD	39227-28-6	109	B	0.0444	5.74	1
11031	123678-HxCDD	57653-85-7	108	B	0.0474	5.74	1
11031	123789-HxCDD	19408-74-3	110	B	0.0443	5.74	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0792	5.74	1
11031	OCDD	3268-87-9	220	B	0.0974	11.5	1
11031	2378-TCDF	51207-31-9	23.9	B	0.0696	1.15	1
11031	12378-PeCDF	57117-41-6	111	B	0.0539	5.74	1
11031	23478-PeCDF	57117-31-4	110	B	0.0523	5.74	1
11031	123478-HxCDF	70648-26-9	110	B	0.148	5.74	1
11031	123678-HxCDF	57117-44-9	109		0.129	5.74	1
11031	123789-HxCDF	72918-21-9	108	B	0.149	5.74	1
11031	234678-HxCDF	60851-34-5	113	B	0.137	5.74	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0681	5.74	1
11031	1234789-HpCDF	55673-89-7	109	B	0.106	5.74	1
11031	OCDF	39001-02-0	219	B	0.0921	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272847
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-4.0-5.0

LLI Sample # SW 6272847
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:15

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7806 SDG#: DX078-06MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 06:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272848
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7807 SDG#: DX078-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272848
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7807 SDG#: DX078-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.112	JB	0.0220	1.21	1
11031	12378-PeCDD	40321-76-4	0.328	JB	0.0251	6.05	1
11031	123478-HxCDD	39227-28-6	0.178	JB	0.0218	6.05	1
11031	123678-HxCDD	57653-85-7	0.157	JB	0.0233	6.05	1
11031	123789-HxCDD	19408-74-3	0.143	JBQ	0.0230	6.05	1
11031	1234678-HpCDD	35822-46-9	0.631	JB	0.0355	6.05	1
11031	OCDD	3268-87-9	3.80	JB	0.0454	12.1	1
11031	2378-TCDF	51207-31-9	0.120	JB	0.0193	1.21	1
11031	12378-PeCDF	57117-41-6	0.351	JB	0.0151	6.05	1
11031	23478-PeCDF	57117-31-4	0.321	JB	0.0159	6.05	1
11031	123478-HxCDF	70648-26-9	0.188	JB	0.0268	6.05	1
11031	123678-HxCDF	57117-44-9	0.207	J	0.0233	6.05	1
11031	123789-HxCDF	72918-21-9	0.227	JBQ	0.0284	6.05	1
11031	234678-HxCDF	60851-34-5	0.183	JBQ	0.0252	6.05	1
11031	1234678-HpCDF	67562-39-4	0.227	JB	0.0137	6.05	1
11031	1234789-HpCDF	55673-89-7	0.120	JB	0.0223	6.05	1
11031	OCDF	39001-02-0	0.314	JBQ	0.0332	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	61	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272848
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7807 SDG#: DX078-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA8N-SB-9.0-10.0

LLI Sample # SW 6272848
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 09:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7807 SDG#: DX078-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 07:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401B	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272849
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7808 SDG#: DX078-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272849
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7808 SDG#: DX078-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0416 JBQ	0.0193	1.12	1
11031	12378-PeCDD	40321-76-4	0.118 JB	0.0174	5.58	1
11031	123478-HxCDD	39227-28-6	0.0681 JB	0.0153	5.58	1
11031	123678-HxCDD	57653-85-7	0.0738 JB	0.0163	5.58	1
11031	123789-HxCDD	19408-74-3	0.0766 JB	0.0156	5.58	1
11031	1234678-HpCDD	35822-46-9	0.321 JB	0.0219	5.58	1
11031	OCDD	3268-87-9	1.60 JB	0.0367	11.2	1
11031	2378-TCDF	51207-31-9	0.0529 JBQ	0.0189	1.12	1
11031	12378-PeCDF	57117-41-6	0.143 JB	0.0111	5.58	1
11031	23478-PeCDF	57117-31-4	0.152 JBQ	0.0128	5.58	1
11031	123478-HxCDF	70648-26-9	0.110 JBQ	0.0156	5.58	1
11031	123678-HxCDF	57117-44-9	0.0713 J	0.0122	5.58	1
11031	123789-HxCDF	72918-21-9	0.0986 JBQ	0.0190	5.58	1
11031	234678-HxCDF	60851-34-5	0.0830 JB	0.0139	5.58	1
11031	1234678-HpCDF	67562-39-4	0.150 JB	0.00910	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0729 JB	0.0203	5.58	1
11031	OCDF	39001-02-0	0.318 JB	0.0325	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	50	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-049-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272849
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:19

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7808 SDG#: DX078-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-4.0-5.0

LLI Sample # SW 6272849
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7808 SDG#: DX078-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 08:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272850
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7809 SDG#: DX078-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272850
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7809 SDG#: DX078-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0475 JBQ	0.0182	1.16	1
11031	12378-PeCDD	40321-76-4	0.102 JB	0.0197	5.80	1
11031	123478-HxCDD	39227-28-6	0.0350 JBQ	0.0148	5.80	1
11031	123678-HxCDD	57653-85-7	0.0457 JBQ	0.0158	5.80	1
11031	123789-HxCDD	19408-74-3	0.0489 JBQ	0.0151	5.80	1
11031	1234678-HpCDD	35822-46-9	0.232 JB	0.0177	5.80	1
11031	OCDD	3268-87-9	0.478 JB	0.0248	11.6	1
11031	2378-TCDF	51207-31-9	0.0322 JB	0.0159	1.16	1
11031	12378-PeCDF	57117-41-6	0.124 JBQ	0.0109	5.80	1
11031	23478-PeCDF	57117-31-4	0.131 JB	0.0118	5.80	1
11031	123478-HxCDF	70648-26-9	0.0831 JB	0.0141	5.80	1
11031	123678-HxCDF	57117-44-9	0.0484 JQ	0.0105	5.80	1
11031	123789-HxCDF	72918-21-9	0.0937 JB	0.0169	5.80	1
11031	234678-HxCDF	60851-34-5	0.0906 JBQ	0.0122	5.80	1
11031	1234678-HpCDF	67562-39-4	0.111 JBQ	0.00796	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0793 JBQ	0.0196	5.80	1
11031	OCDF	39001-02-0	0.214 JBQ	0.0305	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SB-8.0-9.0

LLI Sample # SW 6272850
LLI Group # 1244635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/29/2011 11:24

Submitted: 04/30/2011 09:45
Reported: 05/18/2011 21:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7809 SDG#: DX078-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Suite 210
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X7809 SDG#: DX078-09*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11126001	05/12/2011 09:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11126001	05/06/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162401B	05/13/2011 17:52	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244635
Reported: 05/18/11 at 09:44 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11129162401B	Sample number(s): 6272840-6272848								
Moisture Content by 160.3					100		80-120		
Batch number: 11133162401B	Sample number(s): 6272849-6272850								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11126001	Sample number(s): 6272840-6272850								
2378-TCDD	0.0361 J	0.0237	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0351 J	0.0209	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0265 J	0.0214	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0306 J	0.0227	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0321 J	0.0220	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.220 J	0.0381	5.00	ng/kg	101		70-140		
OCDD	0.419 J	0.0330	10.0	ng/kg	102		78-144		
2378-TCDF	0.0277 J	0.0196	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0325 J	0.0127	5.00	ng/kg	102		80-134		
23478-PeCDF	0.101 J	0.0134	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0481 J	0.0166	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0148 U	0.0148	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0885 J	0.0196	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0538 J	0.0157	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.115 J	0.0147	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0800 J	0.0248	5.00	ng/kg	105		78-138		
OCDF	0.188 J	0.0442	10.0	ng/kg	105		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11129162401B	Sample number(s): 6272840-6272848					BKG: P272812			
Moisture Content by 160.3						16.5	16.4	1	20
Batch number: 11133162401B	Sample number(s): 6272849-6272850					BKG: P266014			
Moisture Content by 160.3						6.4	6.0	7	20
Batch number: 11126001	Sample number(s): 6272840-6272850					UNSPK: 6272845			
2378-TCDD	92	93	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244635
Reported: 05/18/11 at 09:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	94	96	70-142	1	25				
123478-HxCDD	94	95	70-164	2	25				
123678-HxCDD	92	94	76-134	1	25				
123789-HxCDD	93	95	64-162	1	25				
1234678-HpCDD	92	93	70-140	2	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	102	104	75-158	1	25				
12378-PeCDF	97	96	80-134	4	25				
23478-PeCDF	94	96	68-160	1	25				
123478-HxCDF	96	96	72-134	3	25				
123678-HxCDF	94	95	84-130	2	25				
123789-HxCDF	93	94	78-130	3	25				
234678-HxCDF	96	98	70-156	2	25				
1234678-HpCDF	92	93	82-122	2	25				
1234789-HpCDF	92	95	78-138	0	25				
OCDF	94	95	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11126001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6272840	65	59	65	70	65	64
6272841	61	56	61	68	62	53
6272842	60	55	58	68	61	53
6272843	52	47	51	60	57	50
6272844	55	46	50	57	50	50
6272845	36	29	34	38	29	33
6272846	73	73	69	75	74	76
6272847	54	57	56	61	59	59
6272848	62	59	59	65	61	58
6272849	65	60	56	70	61	50
6272850	62	59	56	70	62	51
Blank	58	50	57	63	58	53
MS	73	73	69	75	74	76
MSD	54	57	56	61	59	59
OPR	60	54	60	68	62	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6272840	81	60	57	71	66	70
6272841	82	53	49	68	62	68
6272842	83	50	47	72	62	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244635
Reported: 05/18/11 at 09:44 PM

Surrogate Quality Control

6272843	72	46	43	73	53	61
6272844	69	47	45	58	54	58
6272845	49	32	31	35	38	37
6272846	85	71	67	75	78	77
6272847	74	55	54	77	62	64
6272848	74	54	50	61	63	65
6272849	92	47	42	76	70	70
6272850	95	45	39	72	68	71
Blank	72	52	51	73	57	65
MS	85	71	67	75	78	77
MSD	74	55	54	77	62	64
OPR	82	57	55	77	62	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6272840	70	69	69	68	58	65
6272841	67	67	66	65	55	64
6272842	68	67	67	64	52	64
6272843	59	60	58	56	46	54
6272844	56	57	57	55	46	56
6272845	38	38	38	37	28	40
6272846	78	78	78	76	69	77
6272847	64	63	66	65	51	61
6272848	64	64	63	60	60	66
6272849	71	71	72	68	57	70
6272850	72	70	71	68	55	70
Blank	63	63	62	61	51	56
MS	78	78	78	76	69	77
MSD	64	63	66	65	51	61
OPR	68	69	71	69	51	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1244635 Sample#6272840-50

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	*Alcohols EPA 8015B	Other Instructions and Notes
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	5-Encores										X	X	X										
DUP06-SA8N-QC-042911	04.29.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-013-SA8N-SB-2.5	04.29.11	1204	SOIL	NONE	4-Encores										X	X											
SL-013-SA8N-SB-2.0-3.0	04.29.11	1206	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-014-SA8N-SB-4.5	04.29.11	1410	SOIL	NONE	4-Encores										X	X											
SL-014-SA8N-SB-4.0-5.0	04.29.11	1412	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-017-SA8N-SB-4.5	04.29.11	1520	SOIL	NONE	4-Encores										X	X											
SL-017-SA8N-SB-4.0-5.0	04.29.11	1522	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-017-SA8N-SB-7.0-8.0	04.29.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X												X		
SL-040-SA8N-SB-4.5MS	04.29.11	0910	SOIL	NONE	15-Encores										X	X	X										
SL-040-SA8N-SB-4.0-5.0MS	04.29.11	0915	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X									MS/MSD sample
SL-040-SA8N-SB-9.5	04.29.11	0918	SOIL	NONE	1- Encore												X										MS/MSD sample
SL-040-SA8N-SB-9.0-10.0	04.29.11	0924	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-049-SA8N-SB-4.5	04.29.11	1115	SOIL	NONE	5-Encores										X	X	X										
SL-049-SA8N-SB-4.0-5.0	04.29.11	1119	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-049-SA8N-SB-8.5	04.29.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-049-SA8N-SB-8.0-9.0	04.29.11	1124	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-042911	04.29.11	1430	SOIL	NONE	4-40 mL vials																						

Relinquished by: (Signature)	Date/Time 04/29/2011 / 1700	Received for Laboratory by: (Signature) 4/30/11 0945	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s) 8695 1441 7620; 8695 1441 7630 8695 1441 7641	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/03/2011
Group Number: 1244821
SDG: DE141
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SB-4.0-5.0 Soil	6273941
SL-022-SA8N-SB-4.0-5.0 Soil	6273942
SL-022-SA8N-SB-9.0-10.0 Soil	6273943
SL-050-SA8N-SB-4.0-5.0 Soil	6273944
SL-050-SA8N-SB-9.0-10.0 Soil	6273945
SL-023-SA8N-SB-4.0-5.0 Soil	6273946
SL-023-SA8N-SB-9.0-10.0 Soil	6273947
TB-050211 Water	6273948

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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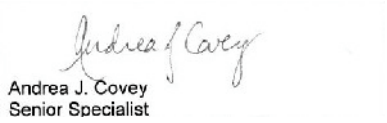
Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5		6.6	7.8		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.83
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.83
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.83
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.83
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.83
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.83
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.83
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.83
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.83
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.83
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.83
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.83
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.83
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.83
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.83
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.83
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.83
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.83
06192	Methylene Chloride	75-09-2	12		0.24	3.9		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.83
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.83
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.83
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.83
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.83
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	201		19.6	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.65	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,700		5.84	23.2		1
07914	Boron	7440-42-8	2.89	J	1.03	5.81		1
01650	Calcium	7440-70-2	4,650		7.12	23.2		1
01654	Iron	7439-89-6	32,500		27.4	116		5
01656	Lithium	7439-93-2	23.8		0.26	2.3		1
01657	Magnesium	7439-95-4	6,210		2.95	11.6		1
06958	Manganese	7439-96-5	490		0.0906	0.581		1
10145	Phosphorus	7723-14-0	175		0.650	11.6		1
01662	Potassium	7440-09-7	3,700		20.9	58.1		1
01667	Sodium	7440-23-5	201		43.3	116		1
07968	Strontium	7440-24-6	29.6		0.0720	0.581		1
06969	Tin	7440-31-5	3.07	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,280		0.441	1.16		1
10146	Zirconium	7440-67-7	6.25		0.976	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.236	J	0.0711	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.00		0.0948	0.474		2
06126	Barium	7440-39-3	149		0.128	0.474		2
06127	Beryllium	7440-41-7	0.997		0.0190	0.118		2
06128	Cadmium	7440-43-9	0.117	J	0.0474	0.118		2
06131	Chromium	7440-47-3	31.7		0.142	0.474		2
06132	Cobalt	7440-48-4	9.63		0.0237	0.118		2
06133	Copper	7440-50-8	16.3		0.0782	0.474		2
06135	Lead	7439-92-1	10.0		0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.544		0.0592	0.118		2
06139	Nickel	7440-02-0	21.7		0.118	0.474		2
06141	Selenium	7782-49-2	0.196	J	0.0474	0.474		2
06142	Silver	7440-22-4	0.0809	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.315		0.0355	0.118		2
06148	Vanadium	7440-62-2	54.5		0.0261	0.118		2
06149	Zinc	7440-66-6	64.4		0.664	3.55		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	337		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-012-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 14:20	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 21:52	Sara E Johnson	19.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 19:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:16	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112324292	05/03/2011 19:50	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11123SLF026	05/06/2011 19:08	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011 05:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011 00:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11123SLF026	05/04/2011 09:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011 07:30	Joseph S Feister	1

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Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 13:02	Elizabeth J Marin	19.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 19:49	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 00:53	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111230008A	05/04/2011 20:18	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 18:37	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111230008A	05/03/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 14:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111230030A	05/03/2011 23:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 15:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111230030A	05/03/2011 18:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:33	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:34	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:29	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273941
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL012 SDG#: DE141-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 04:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 16:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201A	05/17/2011 16:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 14:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11138243201A	05/23/2011 00:02	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:19	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	J	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	18		0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	157		19.4	38.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

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S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.74	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.4		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		5.81	23.1		1
07914	Boron	7440-42-8	4.04	J	1.03	5.78		1

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	6,930	7.08	23.1		1
01654	Iron	7439-89-6	33,400	27.2	116		5
01656	Lithium	7439-93-2	24.1	0.25	2.3		1
01657	Magnesium	7439-95-4	7,100	2.93	11.6		1
06958	Manganese	7439-96-5	485	0.0901	0.578		1
10145	Phosphorus	7723-14-0	291	0.647	11.6		1
01662	Potassium	7440-09-7	4,000	20.8	57.8		1
01667	Sodium	7440-23-5	400	43.1	116		1
07968	Strontium	7440-24-6	32.6	0.0716	0.578		1
06969	Tin	7440-31-5	3.02 J	1.16	11.6		1
06970	Titanium	7440-32-6	1,040	0.439	1.16		1
10146	Zirconium	7440-67-7	6.33	0.970	5.78		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.78	0.0906	0.453		2
06126	Barium	7440-39-3	146	0.122	0.453		2
06127	Beryllium	7440-41-7	0.875	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.263	0.0453	0.113		2
06131	Chromium	7440-47-3	33.8	0.136	0.453		2
06132	Cobalt	7440-48-4	11.9	0.0227	0.113		2
06133	Copper	7440-50-8	16.8	0.0748	0.453		2
06135	Lead	7439-92-1	10.3	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.486	0.0566	0.113		2
06139	Nickel	7440-02-0	22.4	0.113	0.453		2
06141	Selenium	7782-49-2	0.112 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0550 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.312	0.0340	0.113		2
06148	Vanadium	7440-62-2	58.4	0.0249	0.113		2
06149	Zinc	7440-66-6	69.8	0.634	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.93	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53 J	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	340		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 14:42	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 22:12	Sara E Johnson	19.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 19:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:16	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112324292	05/03/2011 20:16	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112324292	05/03/2011 19:55	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11123SLF026	05/06/2011 19:25	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011 05:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011 01:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11123SLF026	05/04/2011 09:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011 07:30	Joseph S Feister	1

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011 13:38	Elizabeth J Marin	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 19:54	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 03:01	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111230008A	05/04/2011 20:28	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:12	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 18:55	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111230008A	05/03/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 15:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111230030A	05/04/2011 00:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 15:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 16:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111230030A	05/03/2011 18:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:36	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:44	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2

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Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273942
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0224 SDG#: DE141-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/11/2011 07:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 16:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201A	05/17/2011 16:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 15:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 00:21	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:20	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0229 SDG#: DE141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.95
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.95
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.95
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.95
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.95
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.95
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.95
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.95
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.95
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.95
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.95
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.95
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.95
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.95
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.95
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.95
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.95
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.95
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.95
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.95
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.95
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.95
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.95
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.95
06192	Methylene Chloride	75-09-2	6.9		0.27	4.5		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.95

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Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0229 SDG#: DE141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.95
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.95
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.95
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.95
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.95
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.95
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.95
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.01
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	86.0		19.7	39.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0229 SDG#: DE141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

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S0229 SDG#: DE141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.75	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.94	23.6		1
07914	Boron	7440-42-8	5.08	J	1.05	5.90		1
01650	Calcium	7440-70-2	8,910		7.23	23.6		1
01654	Iron	7439-89-6	33,700		27.8	118		5
01656	Lithium	7439-93-2	25.2		0.26	2.4		1
01657	Magnesium	7439-95-4	7,860		3.00	11.8		1

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SL-022-SA8N-SB-9.0-10.0

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S0229 SDG#: DE141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	561		0.0920	0.590		1
10145	Phosphorus	7723-14-0	356		0.661	11.8		1
01662	Potassium	7440-09-7	3,550		21.2	59.0		1
01667	Sodium	7440-23-5	150		44.0	118		1
07968	Strontium	7440-24-6	36.0		0.0732	0.590		1
06969	Tin	7440-31-5	2.96	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,390		0.448	1.18		1
10146	Zirconium	7440-67-7	8.41		0.991	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.257		0.0715	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.28		0.0954	0.477		2
06126	Barium	7440-39-3	120		0.129	0.477		2
06127	Beryllium	7440-41-7	0.905		0.0191	0.119		2
06128	Cadmium	7440-43-9	0.344		0.0477	0.119		2
06131	Chromium	7440-47-3	32.3		0.143	0.477		2
06132	Cobalt	7440-48-4	12.0		0.0238	0.119		2
06133	Copper	7440-50-8	17.9		0.0787	0.477		2
06135	Lead	7439-92-1	9.22		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.421		0.0596	0.119		2
06139	Nickel	7440-02-0	27.5		0.119	0.477		2
06141	Selenium	7782-49-2	0.0701	J	0.0477	0.477		2
06142	Silver	7440-22-4	0.0596	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.356		0.0358	0.119		2
06148	Vanadium	7440-62-2	59.1		0.0262	0.119		2
06149	Zinc	7440-66-6	72.9		0.667	3.58		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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SL-022-SA8N-SB-9.0-10.0

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S0229 SDG#: DE141-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	352	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.00	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011	15:05	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011	22:32	Sara E Johnson	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011	20:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112324292	05/03/2011	20:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112324292	05/03/2011	20:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112324292	05/03/2011	20:00	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11123SLF026	05/06/2011	19:41	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011	05:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011	01:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11123SLF026	05/04/2011	09:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011	07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011	07:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11119A34B	05/05/2011	14:15	Elizabeth J Marin	21.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011	19:59	Lois E Hiltz	n.a.

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Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0229 SDG#: DE141-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 03:43	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111230008A	05/04/2011 20:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 19:14	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111230008A	05/03/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 15:28	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111230030A	05/04/2011 00:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 15:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111230016A	05/05/2011 17:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111230016A	05/04/2011 08:00	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111230030A	05/03/2011 18:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:40	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:48	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2

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Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273943
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0229 SDG#: DE141-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 16:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201A	05/17/2011 16:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 16:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 00:33	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0504 SDG#: DE141-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.86
06192	Methylene Chloride	75-09-2	15		0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0504 SDG#: DE141-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.7
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0504 SDG#: DE141-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

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Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0504 SDG#: DE141-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,900		5.75	22.9		1
07914	Boron	7440-42-8	1.02	U	1.02	5.72		1
01650	Calcium	7440-70-2	4,800		7.01	22.9		1
01654	Iron	7439-89-6	30,400		26.9	114		5
01656	Lithium	7439-93-2	21.6		0.25	2.3		1
01657	Magnesium	7439-95-4	5,690		2.90	11.4		1
06958	Manganese	7439-96-5	338		0.0892	0.572		1
10145	Phosphorus	7723-14-0	117		0.640	11.4		1
01662	Potassium	7440-09-7	2,320		20.6	57.2		1
01667	Sodium	7440-23-5	354		42.6	114		1
07968	Strontium	7440-24-6	27.6		0.0709	0.572		1
06969	Tin	7440-31-5	3.03	J	1.14	11.4		1
06970	Titanium	7440-32-6	794		0.434	1.14		1
10146	Zirconium	7440-67-7	4.72	J	0.960	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.304		0.0699	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.98		0.0933	0.466		2
06126	Barium	7440-39-3	145		0.126	0.466		2

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SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0504 SDG#: DE141-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.21	0.0187	0.117		2
06128	Cadmium	7440-43-9	0.194	0.0466	0.117		2
06131	Chromium	7440-47-3	38.8	0.140	0.466		2
06132	Cobalt	7440-48-4	14.4	0.0233	0.117		2
06133	Copper	7440-50-8	19.3	0.0769	0.466		2
06135	Lead	7439-92-1	13.5	0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.854	0.0583	0.117		2
06139	Nickel	7440-02-0	29.1	0.117	0.466		2
06141	Selenium	7782-49-2	0.243 J	0.0466	0.466		2
06142	Silver	7440-22-4	0.0910 J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.419	0.0350	0.117		2
06148	Vanadium	7440-62-2	66.8	0.0256	0.117		2
06149	Zinc	7440-66-6	79.1	0.653	3.50		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	344	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-050-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 15:27	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 22:52	Sara E Johnson	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112324292	05/03/2011 20:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112324292	05/03/2011 20:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011 06:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011 02:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011 07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 19:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 15:44	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:43	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:52	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/11/2011 07:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:19	Choon Y Tian	2

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SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273944
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S0504 SDG#: DE141-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 16:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 17:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 00:46	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0509 SDG#: DE141-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0509 SDG#: DE141-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	7.1	U	7.1	12		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0509 SDG#: DE141-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
	Due to interfering peaks on the chromatogram, the value reported for diethylene glycol represents the lowest reporting limit attainable.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.91	23.5		1
07914	Boron	7440-42-8	1.05	U	1.05	5.88		1
01650	Calcium	7440-70-2	5,470		7.21	23.5		1
01654	Iron	7439-89-6	25,700		5.54	23.5		1
01656	Lithium	7439-93-2	24.7		0.26	2.4		1
01657	Magnesium	7439-95-4	6,120		2.99	11.8		1
06958	Manganese	7439-96-5	366		0.0917	0.588		1
10145	Phosphorus	7723-14-0	322		0.658	11.8		1
01662	Potassium	7440-09-7	1,860		21.2	58.8		1
01667	Sodium	7440-23-5	567		43.9	118		1
07968	Strontium	7440-24-6	23.2		0.0729	0.588		1
06969	Tin	7440-31-5	3.08	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,260		0.447	1.18		1
10146	Zirconium	7440-67-7	6.10		0.988	5.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0713	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.85		0.0950	0.475		2
06126	Barium	7440-39-3	101		0.128	0.475		2
06127	Beryllium	7440-41-7	0.746		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.123		0.0475	0.119		2
06131	Chromium	7440-47-3	24.9		0.143	0.475		2
06132	Cobalt	7440-48-4	9.39		0.0238	0.119		2
06133	Copper	7440-50-8	12.9		0.0784	0.475		2
06135	Lead	7439-92-1	6.47		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.424		0.0594	0.119		2
06139	Nickel	7440-02-0	22.3		0.119	0.475		2
06141	Selenium	7782-49-2	0.0695	J	0.0475	0.475		2
06142	Silver	7440-22-4	0.0389	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.368		0.0356	0.119		2
06148	Vanadium	7440-62-2	49.0		0.0261	0.119		2
06149	Zinc	7440-66-6	63.3		0.665	3.56		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.8		0.95	1.2		1

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Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0509 SDG#: DE141-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.24	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	338		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011	06:44	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011	02:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011	07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011	07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011	19:51	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011	05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011	17:03	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011	10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011	09:55	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011	09:55	Damary Valentin	1

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Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0509 SDG#: DE141-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:55	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 17:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 17:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 01:11	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273945
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0509 SDG#: DE141-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0234 SDG#: DE141-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.9
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.9
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.9
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.9
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.9
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.9
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.9
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.9
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.9
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.9
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.9
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.9
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.9
06192	Methylene Chloride	75-09-2	9.0		0.26	4.3		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.9

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Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0234 SDG#: DE141-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.9
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.9
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

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14420 Albemarle Point Place
Suite 210
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S0234 SDG#: DE141-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

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14420 Albemarle Point Place
Suite 210
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S0234 SDG#: DE141-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		5.72	22.8		1
07914	Boron	7440-42-8	5.08	J	1.01	5.69		1
01650	Calcium	7440-70-2	11,200		6.98	22.8		1
01654	Iron	7439-89-6	36,200		26.8	114		5
01656	Lithium	7439-93-2	23.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,850		2.89	11.4		1
06958	Manganese	7439-96-5	458		0.0888	0.569		1
10145	Phosphorus	7723-14-0	254		0.637	11.4		1
01662	Potassium	7440-09-7	3,650		20.5	56.9		1
01667	Sodium	7440-23-5	112	J	42.4	114		1
07968	Strontium	7440-24-6	43.8		0.0706	0.569		1
06969	Tin	7440-31-5	2.93	J	1.14	11.4		1
06970	Titanium	7440-32-6	841		0.432	1.14		1
10146	Zirconium	7440-67-7	5.48	J	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.329		0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.90		0.0947	0.473		2
06126	Barium	7440-39-3	177		0.128	0.473		2
06127	Beryllium	7440-41-7	1.02		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.260		0.0473	0.118		2
06131	Chromium	7440-47-3	36.4		0.142	0.473		2
06132	Cobalt	7440-48-4	13.2		0.0237	0.118		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0234 SDG#: DE141-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper		7440-50-8	17.7		0.0781	0.473		2
06135	Lead		7439-92-1	11.8		0.0123	0.237		2
06138	Molybdenum		7439-98-7	0.631		0.0592	0.118		2
06139	Nickel		7440-02-0	27.0		0.118	0.473		2
06141	Selenium		7782-49-2	0.143	J	0.0473	0.473		2
06142	Silver		7440-22-4	0.0676	J	0.0142	0.118		2
06145	Thallium		7440-28-0	0.378		0.0355	0.118		2
06148	Vanadium		7440-62-2	63.9		0.0260	0.118		2
06149	Zinc		7440-66-6	74.0		0.663	3.55		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.5		0.95	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.7	U	10.7	35.5		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.63	J	0.24	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	358		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.01		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0234 SDG#: DE141-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 15:50	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111232AA	05/03/2011 23:12	Sara E Johnson	19.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112324292	05/03/2011 20:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112324292	05/03/2011 20:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112324292	05/03/2011 20:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011 07:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011 03:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011 07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011 07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 20:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:53	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:59	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:05	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273946
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0234 SDG#: DE141-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 17:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 17:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 01:23	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273947
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0239 SDG#: DE141-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273947
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0239 SDG#: DE141-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.8 ug/kg. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273947
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0239 SDG#: DE141-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.96	23.7		1
07914	Boron	7440-42-8	6.07		1.06	5.93		1
01650	Calcium	7440-70-2	141,000		36.3	119		5
01654	Iron	7439-89-6	23,400		5.58	23.7		1
01656	Lithium	7439-93-2	20.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,010		3.01	11.9		1
06958	Manganese	7439-96-5	305		0.0925	0.593		1
10145	Phosphorus	7723-14-0	457		0.664	11.9		1
01662	Potassium	7440-09-7	2,430		21.3	59.3		1
01667	Sodium	7440-23-5	128		44.2	119		1
07968	Strontium	7440-24-6	138		0.0735	0.593		1
06969	Tin	7440-31-5	2.65	J	1.19	11.9		1
06970	Titanium	7440-32-6	912		0.450	1.19		1
10146	Zirconium	7440-67-7	5.66	J	0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.272		0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.30		0.0939	0.470		2
06126	Barium	7440-39-3	108		0.127	0.470		2
06127	Beryllium	7440-41-7	0.923		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.270		0.0470	0.117		2
06131	Chromium	7440-47-3	34.2		0.141	0.470		2
06132	Cobalt	7440-48-4	11.1		0.0235	0.117		2
06133	Copper	7440-50-8	19.1		0.0775	0.470		2
06135	Lead	7439-92-1	10.7		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.358		0.0587	0.117		2
06139	Nickel	7440-02-0	23.8		0.117	0.470		2
06141	Selenium	7782-49-2	0.145	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0606	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.328		0.0352	0.117		2
06148	Vanadium	7440-62-2	61.9		0.0258	0.117		2
06149	Zinc	7440-66-6	67.9		0.657	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273947
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0239 SDG#: DE141-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	361	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.14	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	17.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11124SLZ026	05/11/2011	07:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11124SLB026	05/19/2011	03:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11124SLB026	05/05/2011	07:30	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11124SLZ026	05/05/2011	07:30	Joseph S Feister	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011	20:27	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011	05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/10/2011	01:56	John W Yanzuk II	5
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011	10:02	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273947
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0239 SDG#: DE141-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:02	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201A	05/17/2011 18:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201B	05/11/2011 18:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11138243201A	05/23/2011 01:36	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201A	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201B	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101A	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401A	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11138243201A	05/18/2011 15:45	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: TB-050211 Water
SSFL Area IV Collocated Soil Sampling
TB-050211

LLI Sample # WW 6273948
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 08:00

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB502 SDG#: DE141-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-050211 Water
SSFL Area IV Collocated Soil Sampling
TB-050211

LLI Sample # WW 6273948
LLI Group # 1244821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 08:00

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB502 SDG#: DE141-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 20:07	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111291AA	05/09/2011 11:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111262AA	05/06/2011 20:07	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111291AA	05/09/2011 11:28	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11131A20A	05/12/2011 18:26	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11131A20A	05/12/2011 18:26	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111261AA	Sample number(s): 6273941-6273944,6273946									
Acetone	6.7	U	6.7	8.0	ug/kg	131		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	107		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	106		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	91		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	80		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	112		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	116		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	121*		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	100		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	92		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	110		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	96		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	105		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	104		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	97		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	119		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	95		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	110		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	112		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	116		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	102		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	96		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	122*		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	106		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	115		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E111232AA	Sample number(s): 6273941-6273944,6273946									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	108	70-130	4	30
Batch number: E111291AA	Sample number(s): 6273948									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	101	80-123	1	30
Batch number: L111262AA	Sample number(s): 6273948									
Acetone	6	U	6.	20	ug/l	113	123	49-234	8	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	104	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	90	92	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	93	93	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	95	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	105	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	95	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	104	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	85	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	82	82	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	92	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	90	93	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	111	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	87	90	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	91	92	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	100	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	96	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	95	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	81	82	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	84	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Styrene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	87	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	99	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	98	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	102	102	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	111	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	92	93	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	91	92	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	88	92	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	0	30
Batch number: 11123SLF026	Sample number(s): 6273941-6273943									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	75		70-130		
Batch number: 11124SLB026	Sample number(s): 6273941-6273947									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	100		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	105		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	8.8	J	6.0	18	ug/kg	117		67-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	101		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11124SLZ026	Sample number(s): 6273941-6273947									
Aniline	170 U		170.	500	ug/kg	75		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	106		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	105*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	72		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	103		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	94		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	66		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	80		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	73		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	97		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	100		71-104		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	102		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	95		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	99		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11119A34B	Sample number(s): 6273941-6273943									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	67	67-119	9	30
Batch number: 11131A20A	Sample number(s): 6273948									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111300004A	Sample number(s): 6273941-6273943									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	100	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	104		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100	U	100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	105		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111230008A	Sample number(s): 6273941-6273943									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	93		80-126		
Batch number: 111300023A	Sample number(s): 6273942									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 111250016A	Sample number(s): 6273941-6273947									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	80	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111240030A	Sample number(s): 6273941-6273943									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 111230030A	Sample number(s): 6273941-6273943									
Ethanol	100 U		100.	500	ug/kg	97		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	94		68-129		
Batch number: 111240029A	Sample number(s): 6273941-6273945									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Batch number: 111230016A	Sample number(s): 6273941-6273943									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		
Batch number: 111251026001A	Sample number(s): 6273941-6273947									
Antimony	0.0600	U	0.0600	0.200	mg/kg	120		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	102		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	103		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	106		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		83-110		
Vanadium	0.0265	J	0.0220	0.100	mg/kg	106		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111251026001B	Sample number(s): 6273941-6273947									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111251026001C	Sample number(s): 6273941-6273947									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	119		78-122		
Batch number: 111251026001D	Sample number(s): 6273941-6273947									
Barium	0.108	U	0.108	0.400	mg/kg	106		81-111		
Batch number: 111255708001	Sample number(s): 6273941-6273947									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	106		89-112		
Phosphorus	1.25	J	0.560	10.0	mg/kg	101		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.48	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	93		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111255711002	Sample number(s): 6273941-6273947									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	103		88-123		
Batch number: 11129621201B	Sample number(s): 6273941-6273947									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11131102201A	Sample number(s): 6273941-6273943									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11136621201A	Sample number(s): 6273941-6273947									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11138243201A	Sample number(s): 6273941-6273947									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11125039401A	Sample number(s): 6273941-6273947									
18a pH by 9045C						100		95-105		
Batch number: 11125182101A	Sample number(s): 6273941-6273947									
32a OR Potential						99		98-102		
Batch number: 11133162402A	Sample number(s): 6273944-6273947									
Moisture Content by 160.3						100		80-120		
Batch number: 11145162401A	Sample number(s): 6273941-6273943									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111261AA	Sample number(s): 6273941-6273944,6273946 UNSPK: P275761								
Acetone	159	143	15-210	1	30				
Benzene	117	111	55-143	4	30				
Bromobenzene	115	108	43-139	3	30				
Bromochloromethane	126	121	60-137	5	30				
Bromodichloromethane	100	96	53-136	5	30				
Bromoform	93	85	38-124	0	30				

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Quality Control Summary

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Reported: 05/26/11 at 08:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bromomethane	92	90	42-168	7	30				
2-Butanone	126	109	37-163	5	30				
n-Butylbenzene	127	119	30-146	2	30				
sec-Butylbenzene	133	124	33-157	3	30				
tert-Butylbenzene	118	112	41-152	4	30				
Carbon Tetrachloride	109	106	45-153	7	30				
Chlorobenzene	112	105	49-135	2	30				
Chloroethane	94	95	39-152	10	30				
2-Chloroethyl Vinyl Ether	97	89	32-139	1	30				
Chloroform	108	105	61-142	6	30				
Chloromethane	107	107	51-163	9	30				
2-Chlorotoluene	119	114	42-146	5	30				
4-Chlorotoluene	116	110	39-145	4	30				
Chlorotrifluoroethene	99	104	70-130	9	30				
1,2-Dibromo-3-chloropropane	96	82	30-139	7	30				
Dibromochloromethane	99	92	51-128	2	30				
1,2-Dibromoethane	105	96	54-129	1	30				
Dibromomethane	100	94	57-130	3	30				
1,2-Dichlorobenzene	109	101	36-133	1	30				
1,3-Dichlorobenzene	112	105	34-134	3	30				
1,4-Dichlorobenzene	110	104	35-136	4	30				
Dichlorodifluoromethane	94	94	26-151	9	30				
1,1-Dichloroethane	111	108	63-142	7	30				
1,2-Dichloroethane	99	94	68-131	3	30				
1,1-Dichloroethene	113	111	61-149	8	30				
cis-1,2-Dichloroethene	112	106	60-136	3	30				
trans-1,2-Dichloroethene	135	126	59-142	2	30				
1,2-Dichloropropane	110	106	62-135	5	30				
1,3-Dichloropropane	108	99	58-129	1	30				
2,2-Dichloropropane	101	100	53-147	8	30				
1,1-Dichloropropene	114	110	54-145	5	30				
cis-1,3-Dichloropropene	100	96	51-131	5	30				
trans-1,3-Dichloropropene	95	90	49-129	4	30				
Ethylbenzene	115	107	44-141	2	30				
Freon 113	119	121	56-156	11	30				
Freon 133a	97	99	61-131	6	30				
Hexachlorobutadiene	112	104	10-155	1	30				
2-Hexanone	128	111	32-160	6	30				
Isopropylbenzene	118	109	38-144	1	30				
p-Isopropyltoluene	124	118	29-152	4	30				
Methyl Tertiary Butyl Ether	106	95	55-129	1	30				
4-Methyl-2-pentanone	97	84	46-139	5	30				
Methylene Chloride	135	120	61-141	2	30				
n-Propylbenzene	133	125	39-157	3	30				
Styrene	105	97	35-134	2	30				
1,1,1,2-Tetrachloroethane	107	100	52-130	3	30				
1,1,2,2-Tetrachloroethane	111	98	40-152	3	30				
Tetrachloroethene	127	118	42-149	2	30				
Toluene	117	110	50-146	4	30				
1,2,3-Trichlorobenzene	102	90	10-140	3	30				
1,2,4-Trichlorobenzene	97	88	10-136	1	30				
1,1,1-Trichloroethane	109	107	64-142	7	30				
1,1,2-Trichloroethane	106	97	54-139	1	30				

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Quality Control Summary

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Reported: 05/26/11 at 08:48 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichloroethene	111	106	53-144	4	30				
Trichlorofluoromethane	103	100	47-163	6	30				
1,2,3-Trichloropropane	109	99	45-154	1	30				
1,2,4-Trimethylbenzene	118	113	37-149	5	30				
1,3,5-Trimethylbenzene	123	116	38-150	3	30				
Vinyl Chloride	108	108	50-154	9	30				
m+p-Xylene	112	106	44-137	3	30				
o-Xylene	108	101	42-137	3	30				
Batch number: E111232AA	Sample number(s): 6273941-6273944,6273946 UNSPK: P272812								
1,4-Dioxane	89	98	70-130	1	30				
Batch number: 11123SLF026	Sample number(s): 6273941-6273943 UNSPK: P262830								
N-Nitrosodimethylamine	53*	60*	70-130	10	30				
Batch number: 11124SLB026	Sample number(s): 6273941-6273947 UNSPK: P272812								
Acenaphthene	89	87	63-105	2	30				
Acenaphthylene	92	88	67-114	4	30				
Anthracene	96	96	60-122	1	30				
Benzo(a)anthracene	99	104	59-128	5	30				
Benzo(a)pyrene	102	105	45-138	4	30				
Benzo(b)fluoranthene	98	104	43-155	6	30				
Benzo(g,h,i)perylene	90	99	33-141	9	30				
Benzo(k)fluoranthene	100	105	42-144	5	30				
Butylbenzylphthalate	108	118	57-173	9	30				
Di-n-butylphthalate	114	116	65-148	2	30				
Chrysene	94	99	48-134	5	30				
Dibenz(a,h)anthracene	99	106	22-133	8	30				
Diethylphthalate	106	102	70-136	4	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	127	132	39-167	4	30				
Fluoranthene	99	103	26-166	4	30				
Fluorene	94	96	66-122	2	30				
Indeno(1,2,3-cd)pyrene	97	105	21-143	8	30				
1-Methylnaphthalene	93	90	72-123	3	30				
2-Methylnaphthalene	84	81	64-103	3	30				
Naphthalene	89	85	61-102	5	30				
N-Nitrosodimethylamine	89	77	48-113	14	30				
Di-n-octylphthalate	92	106	40-192	11	30				
Phenanthrene	90	91	12-165	1	30				
Pyrene	90	95	15-153	5	30				
Batch number: 11124SLZ026	Sample number(s): 6273941-6273947 UNSPK: P24LZUS								
Aniline	58	76	35-95	26	30				
Benzidine	42	59	35-141	35*	30				
Benzoic acid	50	63	10-173	22	30				
Benzyl alcohol	98	98	67-115	1	30				
4-Bromophenyl-phenylether	90	94	67-129	4	30				
Carbazole	91	95	64-120	4	30				
4-Chloro-3-methylphenol	96	97	76-110	1	30				
4-Chloroaniline	57	63	23-95	10	30				
bis(2-Chloroethoxy)methane	92	97	75-104	5	30				
bis(2-Chloroethyl)ether	95	97	60-116	2	30				

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	89	94	55-142	5	30				
2-Chloronaphthalene	68	70	50-141	3	30				
2-Chlorophenol	98	97	73-121	1	30				
4-Chlorophenyl-phenylether	89	95	80-109	6	30				
Dibenzofuran	92	94	71-112	2	30				
1,2-Dichlorobenzene	86	88	66-108	2	30				
1,3-Dichlorobenzene	83	88	63-109	5	30				
1,4-Dichlorobenzene	83	86	70-100	3	30				
3,3'-Dichlorobenzidine	40	55	16-119	31*	30				
2,4-Dichlorophenol	95	96	78-117	1	30				
2,4-Dimethylphenol	95	97	78-110	2	30				
3,5-Dimethylphenol	97	101	70-130	3	30				
4,6-Dinitro-2-methylphenol	43	50	24-116	15	30				
2,4-Dinitrophenol	24	30	20-143	21	30				
2,4-Dinitrotoluene	91	96	73-113	4	30				
2,6-Dinitrotoluene	93	95	69-123	3	30				
1,2-Diphenylhydrazine	104	105	71-129	1	30				
Hexachlorobenzene	92	93	77-114	1	30				
Hexachlorobutadiene	88	92	62-120	4	30				
Hexachlorocyclopentadiene	36	48	10-153	30	30				
Hexachloroethane	86	89	57-109	4	30				
Isophorone	92	96	73-102	4	30				
2-Methylphenol	96	97	75-111	1	30				
4-Methylphenol	92	95	71-111	3	30				
2-Nitroaniline	93	96	67-125	3	30				
3-Nitroaniline	92	97	59-122	4	30				
4-Nitroaniline	68	70	52-112	2	30				
Nitrobenzene	93	97	72-106	3	30				
2-Nitrophenol	96	96	74-115	0	30				
4-Nitrophenol	80	83	54-113	3	30				
N-Nitroso-di-n-propylamine	94	98	60-116	4	30				
N-Nitrosodiphenylamine	96	97	86-145	1	30				
Pentachlorophenol	63	65	28-127	3	30				
Phenol	94	94	58-126	0	30				
1,2,4-Trichlorobenzene	90	93	72-115	3	30				
2,4,5-Trichlorophenol	90	94	78-109	4	30				
2,4,6-Trichlorophenol	92	96	77-115	4	30				
Batch number: 11119A34B	Sample number(s): 6273941-6273943 UNSPK: P272812								
9a TPH by EPA 8015B Gas C5-C12	71	64	39-118	1	30				
Batch number: 111300004A	Sample number(s): 6273941-6273943 UNSPK: 6273941								
4-Amino-2,6-Dinitrotoluene	107	109	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	101	101	80-131	0	50				
2,6-Dinitrotoluene	103	104	80-127	2	50				
HMX	92	92	63-128	0	50				
Nitrobenzene	96	98	80-125	2	50				
Nitroglycerin	94	95	80-120	0	50				
2-Nitrotoluene	98	98	80-122	0	50				
3-Nitrotoluene	101	101	72-119	0	50				
4-Nitrotoluene	97	97	80-125	0	50				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PETN	120	122*	80-121	1	50				
RDX	94	95	75-129	1	50				
Tetryl	91	88	55-174	3	50				
1,3,5-Trinitrobenzene	100	101	82-126	1	50				
2,4,6-Trinitrotoluene	106	106	82-130	1	50				
Batch number: 111230008A	Sample number(s): 6273941-6273943 UNSPK: P272817								
25a Formaldehyde 8315A	90	88	80-120	2	50				
Batch number: 111300023A	Sample number(s): 6273942 UNSPK: 6273942								
6a Perchlorate EPA 6850	98	104	80-120	6	20				
Batch number: 111250016A	Sample number(s): 6273941-6273947 UNSPK: P275761								
PCB-1016	92	88	29-146	4	50				
PCB-1260	98	97	39-149	1	50				
Batch number: 111240030A	Sample number(s): 6273941-6273943 UNSPK: P272812								
EFH (C12-C14)	87	86	49-123	1	20				
EFH (C15-C20)	116	103	49-123	12	20				
EFH (C21-C30)	299*	52	49-123	102*	20				
EFH (C30 - C40)	393*	-9*	49-123	124*	20				
EFH (C8-C11)	54	53	49-123	2	20				
Batch number: 111230030A	Sample number(s): 6273941-6273943 UNSPK: P272818								
Ethanol	83	83	48-130	0	20				
Isopropanol	83	83	12-149	0	20				
Methanol	80	80	43-138	0	20				
Batch number: 111240029A	Sample number(s): 6273941-6273945 UNSPK: P275761								
Diethylene glycol	29*	27*	59-109	7	20				
Ethylene glycol	47*	44*	63-107	8	20				
Propylene glycol	55*	50*	63-107	10	20				
Batch number: 111230016A	Sample number(s): 6273941-6273943 UNSPK: P264819								
m-Terphenyl	78	79	75-125	1	20				
o-Terphenyl	96	96	75-125	0	20				
p-Terphenyl	92	89	75-125	3	20				
Batch number: 111251026001A	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Antimony	69*	60*	75-125	13	20	0.171 J	0.138 J	21* (1)	20
Arsenic	136*	70*	75-125	17	20	5.84	5.46	7	20
Beryllium	116	74*	75-125	23*	20	0.708	0.686	3	20
Cadmium	115	92	75-125	22*	20	0.0915 J	0.0723 J	23* (1)	20
Chromium	120	56*	75-125	20	20	24.1	23.6	2	20
Cobalt	121	96	75-125	22*	20	7.65	6.35	19	20
Copper	129*	88	75-125	20	20	9.98	9.67	3	20
Lead	107	59*	75-125	15	20	6.91	6.09	13	20
Nickel	134*	79	75-125	20	20	18.1	15.8	13	20
Silver	120	101	75-125	19	20	0.0492 J	0.0303 J	47* (1)	20
Thallium	125	97	75-125	17	20	0.230	0.183	23* (1)	20
Vanadium	142 (2)	32 (2)	75-125	22*	20	42.4	41.4	2	20
Zinc	154 (2)	29 (2)	75-125	21*	20	50.7	49.0	3	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111251026001B	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Selenium	95	90	75-125	7	20	0.0988 J	0.0654 J	41* (1)	20
Batch number: 111251026001C	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Molybdenum	115	94	75-125	21*	20	0.250	0.251	0 (1)	20
Batch number: 111251026001D	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Barium	149 (2)	-103 (2)	75-125	21*	20	113	100	12	20
Batch number: 111255708001	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Aluminum	2004 (2)	1508 (2)	75-125	4	20	21,600	20,600	5	20
Boron	96	95	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	147 (2)	104 (2)	75-125	4	20	4,120	4,050	2	20
Iron	1899 (2)	-251 (2)	75-125	8	20	27,000	26,300	3	20
Lithium	98	97	82-114	1	20	20.4	20.0	2	20
Magnesium	294 (2)	99 (2)	75-125	6	20	5,880	5,710	3	20
Manganese	-22 (2)	47 (2)	75-125	8	20	418	302	32*	20
Phosphorus	110	104	75-125	3	20	128	131	3	20
Potassium	118	112	75-125	3	20	1,530	1,440	6	20
Sodium	95	92	75-125	3	20	397	386	3 (1)	20
Strontium	98	94	75-115	4	20	22.8	21.5	6	20
Tin	93	93	80-110	1	20	2.75 J	2.71 J	1 (1)	20
Titanium	328 (2)	284 (2)	75-125	3	20	1,080	1,110	2	20
Zirconium	96	96	75-125	1	20	5.33	5.30	1 (1)	20
Batch number: 111255711002	Sample number(s): 6273941-6273947 UNSPK: P275761 BKG: P275761								
Mercury	105	105	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11129621201B	Sample number(s): 6273941-6273947 UNSPK: 6273941 BKG: 6273941								
7a Perchlorate EPA 314.0	85		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11131102201A	Sample number(s): 6273941-6273943 UNSPK: P272817 BKG: P272817								
17a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11136621201A	Sample number(s): 6273941-6273947 UNSPK: P271850 BKG: P271850								
11a Anions by 300.0 - Fluoride	75*		80-120			1.3	2.9	73* (1)	20
11a Anions by 300.0 - Nitrate	78*		80-120			2.0	4.4	77* (1)	20
Batch number: 11138243201A	Sample number(s): 6273941-6273947 UNSPK: P272812 BKG: P272812								
3a Cr VI by EPA 7199	92		75-125			0.47 J	0.63 J	29* (1)	20
Batch number: 11125039401A	Sample number(s): 6273941-6273947 BKG: 6273945								
18a pH by 9045C						8.50	8.57	1	1
Batch number: 11125182101A	Sample number(s): 6273941-6273947 BKG: 6273945								
32a OR Potential						338	340	1	6
Batch number: 11133162402A	Sample number(s): 6273944-6273947 BKG: P275761								
Moisture Content by 160.3						14.7	13.0	13	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11145162401A	Sample number(s): 6273941-6273943					BKG: 6273942			
Moisture Content by 160.3						14.3	13.9	3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6273941	94	97	103	92
6273942	94	98	104	90
6273943	96	102	100	94
6273944	96	103	101	91
6273946	94	97	104	89
Blank	94	101	102	93
LCS	95	103	104	97
MS	95	98	106	98
MSD	95	96	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111232AA

	Toluene-d8
6273941	97
6273942	97
6273943	97
6273944	97
6273946	98
Blank	98
LCS	97
LCSD	97
MS	97
MSD	97
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111291AA

	Toluene-d8
6273948	109
Blank	107
LCS	108
LCSD	108

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6273948	104	102	97	99
Blank	104	102	98	99
LCS	106	102	99	101
LCSD	106	101	98	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11123SLF026

	N-Nitrosodimethylamine-d6
6273941	105
6273942	116
6273943	121
Blank	97
LCS	93
MS	110
MSD	102
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11124SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6273941	96	87	91
6273942	102	91	99
6273943	105	93	100
6273944	101	90	97
6273945	103	94	102
6273946	102	90	94
6273947	101	92	98
Blank	101	97	103
LCS	118	100	104
MS	110	93	93
MSD	106	89	99
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11124SLZ026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6273941	81	78	67	77	76	76
6273942	92	90	76	85	83	84
6273943	83	80	67	76	78	74
6273944	92	89	75	84	81	82
6273945	90	87	74	82	80	81
6273946	90	88	73	83	80	83
6273947	91	88	79	83	79	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Surrogate Quality Control

Blank	88	86	79	84	85	79
LCS	101	99	87	91	89	84
MS	94	92	77	86	85	80
MSD	95	92	80	88	86	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11119A34B

	Trifluorotoluene-F
6273941	82
6273942	80
6273943	78
Blank	80
LCS	92
LCSD	82
MS	87
MSD	79
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11131A20A

	Trifluorotoluene-F
6273948	75
Blank	64
LCS	116
LCSD	116
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111230008A

	Butyraldehyde
6273941	120
6273942	108
6273943	107
Blank	97
LCS	97
MS	82
MSD	79
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111250016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6273941	90	90
6273942	93	91
6273943	89	84
6273944	91	89
6273945	92	93
6273946	89	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Surrogate Quality Control

6273947	87	86
Blank	103	97
LCS	102	99
LCSD	90	94
MS	92	93
MSD	93	92
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111300004A

	2-Nitro-m-xylene
6273941	108
6273942	127
6273943	117
Blank	123
LCS	149*
LCSD	108
MS	168*
MSD	152*
Limits:	80-146

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111230016A

	n-Triacontane-d62
6273941	78
6273942	74
6273943	73
Blank	78
LCS	77
MS	89
MSD	81
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111230030A

	Acetone
6273941	88
6273942	88
6273943	88
Blank	89
LCS	90
MS	90
MSD	90
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111240029A

	Tetramethylene glycol
6273941	62

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244821
Reported: 05/26/11 at 08:48 AM

Surrogate Quality Control

6273942	63
6273943	63
6273944	62
6273945	60
Blank	123
LCS	129
MS	71
MSD	67
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111240030A

	Chlorobenzene	Orthoterphenyl
6273941	66	84
6273942	62	81
6273943	56	76
Blank	80	96
LCS	82	100
MS	79	97
MSD	77	95
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1244821 627394/-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: KBennett

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs: EPA 8270C & PAHs 8270 SIM	PCBs/PCTs: EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahydrofuran EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA8N-SB-4.5	05.02.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-012-SA8N-SB-4.0-5.0	05.02.11	0920	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-4.5	05.02.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA8N-SB-4.0-5.0	05.02.11	1210	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-9.5	05.02.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA8N-SB-9.0-10.0	05.02.11	1215	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA8N-SB-4.5	05.02.11	1040	SOIL	NONE	4-Encores										X	X											
SL-050-SA8N-SB-4.0-5.0	05.02.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-050-SA8N-SB-9.0-10.0	05.02.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-023-SA8N-SB-4.5	05.02.11	1540	SOIL	NONE	4-Encores										X	X											
SL-023-SA8N-SB-4.0-5.0	05.02.11	1545	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-023-SA8N-SB-9.0-10.0	05.02.11	1550	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-050211	05.02.11	0800	SOIL	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/02/2011 / 1700	5/3/11 1035	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7652, 7663	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/03/2011
Group Number: 1244822
SDG: DX077
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SB-4.0-5.0 Soil	6273949
SL-022-SA8N-SB-4.0-5.0 Soil	6273950
SL-022-SA8N-SB-9.0-10.0 Soil	6273951
SL-050-SA8N-SB-4.0-5.0 Soil	6273952
SL-050-SA8N-SB-9.0-10.0 Soil	6273953
SL-023-SA8N-SB-4.0-5.0 Soil	6273954
SL-023-SA8N-SB-9.0-10.0 Soil	6273955

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0191 U	0.0191	1.17	1
11031	12378-PeCDD	40321-76-4	0.0500 JBQ	0.0199	5.85	1
11031	123478-HxCDD	39227-28-6	0.0240 JBQ	0.0193	5.85	1
11031	123678-HxCDD	57653-85-7	0.112 JBQ	0.0199	5.85	1
11031	123789-HxCDD	19408-74-3	0.189 JB	0.0190	5.85	1
11031	1234678-HpCDD	35822-46-9	0.275 JBQ	0.0271	5.85	1
11031	OCDD	3268-87-9	0.670 JBQ	0.0344	11.7	1
11031	2378-TCDF	51207-31-9	0.0161 U	0.0161	1.17	1
11031	12378-PeCDF	57117-41-6	0.0411 JBQ	0.00972	5.85	1
11031	23478-PeCDF	57117-31-4	0.0678 JBQ	0.0104	5.85	1
11031	123478-HxCDF	70648-26-9	0.0416 JBQ	0.0169	5.85	1
11031	123678-HxCDF	57117-44-9	0.0354 JBQ	0.0150	5.85	1
11031	123789-HxCDF	72918-21-9	0.287 JB	0.0201	5.85	1
11031	234678-HxCDF	60851-34-5	0.0594 JBQ	0.0161	5.85	1
11031	1234678-HpCDF	67562-39-4	0.127 JBQ	0.0136	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0449 JB	0.0232	5.85	1
11031	OCDF	39001-02-0	0.141 JB	0.0360	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SB-4.0-5.0

LLI Sample # SW 6273949
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 09:20

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DL012 SDG#: DX077-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 13:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142	U	0.0142	1.11	1
11031	12378-PeCDD	40321-76-4	0.0354	JB	0.0133	5.56	1
11031	123478-HxCDD	39227-28-6	0.0138	U	0.0138	5.56	1
11031	123678-HxCDD	57653-85-7	0.0897	JB	0.0144	5.56	1
11031	123789-HxCDD	19408-74-3	0.163	JB	0.0135	5.56	1
11031	1234678-HpCDD	35822-46-9	0.305	JB	0.0167	5.56	1
11031	OCDD	3268-87-9	0.992	JB	0.0257	11.1	1
11031	2378-TCDF	51207-31-9	0.0152	U	0.0152	1.11	1
11031	12378-PeCDF	57117-41-6	0.0788	JBQ	0.00758	5.56	1
11031	23478-PeCDF	57117-31-4	0.0584	JB	0.00840	5.56	1
11031	123478-HxCDF	70648-26-9	0.0453	JB	0.0134	5.56	1
11031	123678-HxCDF	57117-44-9	0.0252	JBQ	0.0103	5.56	1
11031	123789-HxCDF	72918-21-9	0.300	JB	0.0163	5.56	1
11031	234678-HxCDF	60851-34-5	0.0621	JB	0.0119	5.56	1
11031	1234678-HpCDF	67562-39-4	0.125	JBQ	0.00805	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0493	JBQ	0.0187	5.56	1
11031	OCDF	39001-02-0	0.158	JBQ	0.0265	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-4.0-5.0

LLI Sample # SW 6273950
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:10

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0224 SDG#: DX077-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 14:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0162 U	0.0162	1.17	1
11031	12378-PeCDD	40321-76-4	0.0734 JBQ	0.0162	5.85	1
11031	123478-HxCDD	39227-28-6	0.0328 JBQ	0.0155	5.85	1
11031	123678-HxCDD	57653-85-7	0.0652 JBQ	0.0160	5.85	1
11031	123789-HxCDD	19408-74-3	0.0538 JBQ	0.0153	5.85	1
11031	1234678-HpCDD	35822-46-9	0.563 JB	0.0282	5.85	1
11031	OCDD	3268-87-9	3.07 JB	0.0386	11.7	1
11031	2378-TCDF	51207-31-9	0.0203 U	0.0203	1.17	1
11031	12378-PeCDF	57117-41-6	0.124 JBQ	0.00918	5.85	1
11031	23478-PeCDF	57117-31-4	0.113 JB	0.0106	5.85	1
11031	123478-HxCDF	70648-26-9	0.0998 JB	0.0138	5.85	1
11031	123678-HxCDF	57117-44-9	0.0882 JB	0.0108	5.85	1
11031	123789-HxCDF	72918-21-9	0.0576 JBQ	0.0172	5.85	1
11031	234678-HxCDF	60851-34-5	0.0981 JBQ	0.0123	5.85	1
11031	1234678-HpCDF	67562-39-4	0.185 JBQ	0.00942	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0573 JB	0.0193	5.85	1
11031	OCDF	39001-02-0	0.302 JB	0.0340	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SB-9.0-10.0

LLI Sample # SW 6273951
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 12:15

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0229 SDG#: DX077-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 15:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401A	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367	JBQ	0.0130	1.14	1
11031	12378-PeCDD	40321-76-4	0.148	JB	0.0145	5.72	1
11031	123478-HxCDD	39227-28-6	0.0825	JB	0.0162	5.72	1
11031	123678-HxCDD	57653-85-7	0.192	JB	0.0166	5.72	1
11031	123789-HxCDD	19408-74-3	0.261	JB	0.0162	5.72	1
11031	1234678-HpCDD	35822-46-9	0.303	JB	0.0153	5.72	1
11031	OCDD	3268-87-9	0.991	JB	0.0220	11.4	1
11031	2378-TCDF	51207-31-9	0.0521	J	0.0119	1.14	1
11031	12378-PeCDF	57117-41-6	0.222	JB	0.00809	5.72	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.00916	5.72	1
11031	123478-HxCDF	70648-26-9	0.144	JB	0.0162	5.72	1
11031	123678-HxCDF	57117-44-9	0.136	JB	0.0133	5.72	1
11031	123789-HxCDF	72918-21-9	0.359	JB	0.0205	5.72	1
11031	234678-HxCDF	60851-34-5	0.134	JB	0.0152	5.72	1
11031	1234678-HpCDF	67562-39-4	0.164	JB	0.00761	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0680	JB	0.0153	5.72	1
11031	OCDF	39001-02-0	0.182	JB	0.0195	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-4.0-5.0

LLI Sample # SW 6273952
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0504 SDG#: DX077-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 16:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

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Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0622 JBQ	0.0143	1.18	1
11031	12378-PeCDD	40321-76-4	0.172 JBQ	0.0140	5.90	1
11031	123478-HxCDD	39227-28-6	0.0727 JBQ	0.0139	5.90	1
11031	123678-HxCDD	57653-85-7	0.0691 JBQ	0.0143	5.90	1
11031	123789-HxCDD	19408-74-3	0.0791 JB	0.0138	5.90	1
11031	1234678-HpCDD	35822-46-9	0.216 JB	0.0153	5.90	1
11031	OCDD	3268-87-9	0.467 JB	0.0190	11.8	1
11031	2378-TCDF	51207-31-9	0.0575 J	0.0120	1.18	1
11031	12378-PeCDF	57117-41-6	0.214 JB	0.00796	5.90	1
11031	23478-PeCDF	57117-31-4	0.221 JB	0.00926	5.90	1
11031	123478-HxCDF	70648-26-9	0.179 JB	0.0150	5.90	1
11031	123678-HxCDF	57117-44-9	0.120 JB	0.0114	5.90	1
11031	123789-HxCDF	72918-21-9	0.139 JB	0.0185	5.90	1
11031	234678-HxCDF	60851-34-5	0.109 JBQ	0.0132	5.90	1
11031	1234678-HpCDF	67562-39-4	0.148 JB	0.00701	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0766 JB	0.0179	5.90	1
11031	OCDF	39001-02-0	0.172 JB	0.0291	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SB-9.0-10.0

LLI Sample # SW 6273953
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 10:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0509 SDG#: DX077-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 17:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0615 JBQ	0.0142	1.18	1
11031	12378-PeCDD	40321-76-4	0.0938 JBQ	0.0163	5.89	1
11031	123478-HxCDD	39227-28-6	0.0649 JBQ	0.0265	5.89	1
11031	123678-HxCDD	57653-85-7	0.139 JBQ	0.0272	5.89	1
11031	123789-HxCDD	19408-74-3	0.224 JB	0.0253	5.89	1
11031	1234678-HpCDD	35822-46-9	0.462 JB	0.0424	5.89	1
11031	OCDD	3268-87-9	1.66 JB	0.0370	11.8	1
11031	2378-TCDF	51207-31-9	0.0180 J	0.0133	1.18	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.00781	5.89	1
11031	23478-PeCDF	57117-31-4	0.129 JB	0.00911	5.89	1
11031	123478-HxCDF	70648-26-9	0.0918 JBQ	0.0226	5.89	1
11031	123678-HxCDF	57117-44-9	0.0916 JB	0.0167	5.89	1
11031	123789-HxCDF	72918-21-9	0.324 JB	0.0282	5.89	1
11031	234678-HxCDF	60851-34-5	0.105 JBQ	0.0202	5.89	1
11031	1234678-HpCDF	67562-39-4	0.201 JB	0.0147	5.89	1
11031	1234789-HpCDF	55673-89-7	0.132 JB	0.0414	5.89	1
11031	OCDF	39001-02-0	0.280 JB	0.0540	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-4.0-5.0

LLI Sample # SW 6273954
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:45

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0234 SDG#: DX077-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 21:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0339 JBQ	0.0157	1.18	1
11031	12378-PeCDD	40321-76-4	0.0649 JB	0.0167	5.90	1
11031	123478-HxCDD	39227-28-6	0.0923 JBQ	0.0285	5.90	1
11031	123678-HxCDD	57653-85-7	0.211 JB	0.0294	5.90	1
11031	123789-HxCDD	19408-74-3	0.140 JB	0.0281	5.90	1
11031	1234678-HpCDD	35822-46-9	3.65 JB	0.0427	5.90	1
11031	OCDD	3268-87-9	29.5 B	0.0383	11.8	1
11031	2378-TCDF	51207-31-9	0.0209 U	0.0209	1.18	1
11031	12378-PeCDF	57117-41-6	0.0565 JBQ	0.00895	5.90	1
11031	23478-PeCDF	57117-31-4	0.0821 JB	0.0104	5.90	1
11031	123478-HxCDF	70648-26-9	0.0814 JBQ	0.0187	5.90	1
11031	123678-HxCDF	57117-44-9	0.0723 JB	0.0151	5.90	1
11031	123789-HxCDF	72918-21-9	0.0996 JB	0.0250	5.90	1
11031	234678-HxCDF	60851-34-5	0.103 JB	0.0174	5.90	1
11031	1234678-HpCDF	67562-39-4	0.471 JB	0.0160	5.90	1
11031	1234789-HpCDF	55673-89-7	0.105 JBQ	0.0407	5.90	1
11031	OCDF	39001-02-0	0.866 JBQ	0.0502	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SB-9.0-10.0

LLI Sample # SW 6273955
LLI Group # 1244822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/02/2011 15:50

Submitted: 05/03/2011 10:35
Reported: 05/26/2011 08:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0239 SDG#: DX077-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11125001	05/08/2011 22:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11125001	05/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11133162402A	Sample number(s): 6273952-6273955								
Moisture Content by 160.3					100		80-120		
Batch number: 11145162401A	Sample number(s): 6273949-6273951								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11125001	Sample number(s): 6273949-6273955								
2378-TCDD	0.0302 J	0.0160	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0388 J	0.0140	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0157 J	0.0134	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0351 J	0.0142	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0315 J	0.0135	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.205 J	0.0213	5.00	ng/kg	97		70-140		
OCDD	0.439 J	0.0212	10.0	ng/kg	96		78-144		
2378-TCDF	0.0137 U	0.0137	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0393 J	0.00790	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0837 J	0.00840	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0841 J	0.0151	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0651 J	0.0123	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0834 J	0.0172	5.00	ng/kg	96		78-130		
234678-HxCDF	0.104 J	0.0140	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.236 J	0.00990	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0899 J	0.0209	5.00	ng/kg	98		78-138		
OCDF	0.285 J	0.0397	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162402A	Sample number(s): 6273952-6273955					BKG: P275761			
Moisture Content by 160.3						14.7	13.0	13	20
Batch number: 11145162401A	Sample number(s): 6273949-6273951					BKG: P273942			
Moisture Content by 160.3						14.3	13.9	3	20
Batch number: 11125001	Sample number(s): 6273949-6273955					UNSPK: P267488			
2378-TCDD	92	92	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	95	96	70-142	1	25				
123478-HxCDD	96	95	70-164	1	25				
123678-HxCDD	97	94	76-134	3	25				
123789-HxCDD	95	94	64-162	1	25				
1234678-HpCDD	94	94	70-140	0	25				
OCDD	95	95	78-144	1	25				
2378-TCDF	99	98	75-158	1	25				
12378-PeCDF	94	92	80-134	3	25				
23478-PeCDF	95	93	68-160	1	25				
123478-HxCDF	96	95	72-134	1	25				
123678-HxCDF	95	94	84-130	1	25				
123789-HxCDF	95	95	78-130	0	25				
234678-HxCDF	97	96	70-156	1	25				
1234678-HpCDF	94	95	82-122	0	25				
1234789-HpCDF	97	95	78-138	2	25				
OCDF	97	97	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6273949	63	52	54	61	55	49
6273950	76	66	65	81	70	59
6273951	62	53	52	63	55	47
6273952	72	61	61	72	63	53
6273953	65	56	53	69	59	48
6273954	66	55	55	70	59	48
6273955	66	59	58	73	61	47
Blank	66	63	64	77	68	61
MS	67	64	67	75	68	62
MSD	66	61	65	72	67	67
OPR	48	43	45	50	46	43
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6273949	72	46	42	69	61	66
6273950	105	55	51	88	82	92
6273951	77	44	39	72	62	69
6273952	93	52	47	82	73	78
6273953	93	43	37	76	71	76
6273954	93	40	34	77	67	75
6273955	96	46	39	72	72	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244822
Reported: 05/26/11 at 08:53 AM

Surrogate Quality Control

Blank	101	55	49	89	73	81
MS	86	61	58	76	70	77
MSD	85	58	52	75	68	77
OPR	58	42	39	59	47	53
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6273949	66	66	64	60	55	60
6273950	88	90	89	86	61	79
6273951	67	68	66	61	54	64
6273952	76	76	76	74	61	72
6273953	77	77	76	72	51	69
6273954	74	75	74	69	54	67
6273955	77	78	78	74	55	73
Blank	81	81	82	79	57	70
MS	75	75	76	75	63	70
MSD	74	76	74	70	59	68
OPR	51	53	51	50	43	46
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1244822 6273949-55

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: K Bennett

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA8N-SB-4.5	05.02.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-012-SA8N-SB-4.0-5.0	05.02.11	0920	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-4.5	05.02.11	1205	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA8N-SB-4.0-5.0	05.02.11	1210	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SB-9.5	05.02.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA8N-SB-9.0-10.0	05.02.11	1215	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA8N-SB-4.5	05.02.11	1040	SOIL	NONE	4-Encores										X	X											
SL-050-SA8N-SB-4.0-5.0	05.02.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-050-SA8N-SB-9.0-10.0	05.02.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-023-SA8N-SB-4.5	05.02.11	1540	SOIL	NONE	4-Encores										X	X											
SL-023-SA8N-SB-4.0-5.0	05.02.11	1545	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-023-SA8N-SB-9.0-10.0	05.02.11	1550	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-050211	05.02.11	0800	SOIL	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature) — Date/Time: 05/02/2011 / 1700 — Received for Laboratory by: (Signature) 5/3/11 1035

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1441 7652, 7663 5/3/11

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/04/2011
Group Number: 1245064
SDG: DE142
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA8N-SB-4.0-5.0 Soil	6275761
SL-015-SA8N-SB-4.0-5.0MS Soil	6275762
SL-015-SA8N-SB-4.0-5.0MSD Soil	6275763
SL-015-SA8N-SB-4.0-5.0DUP Soil	6275764
SL-016-SA8N-SB-3.0-4.0 Soil	6275765
SL-018-SA8N-SB-4.0-5.0 Soil	6275766
SL-019-SA8N-SB-4.0-5.0 Soil	6275767
SL-020-SA8N-SB-4.0-5.0 Soil	6275768
SL-020-SA8N-SB-9.0-10.0 Soil	6275769
EB08-SA8N-SB-050311 Water	6275770
DUP07-SA8N-QC-050311 Soil	6275771
TB-050311 Water	6275772

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	7.4		0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		19.84
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	8.1	J	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,400		5.78	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.75		1
01650	Calcium	7440-70-2	4,830		7.05	23.0		1
01654	Iron	7439-89-6	31,700		27.1	115		5
01656	Lithium	7439-93-2	23.9		0.25	2.3		1
01657	Magnesium	7439-95-4	6,900		2.92	11.5		1
06958	Manganese	7439-96-5	489		0.0896	0.575		1
10145	Phosphorus	7723-14-0	150		0.644	11.5		1
01662	Potassium	7440-09-7	1,790		20.7	57.5		1
01667	Sodium	7440-23-5	466		42.9	115		1
07968	Strontium	7440-24-6	26.7		0.0713	0.575		1
06969	Tin	7440-31-5	3.22	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,270		0.437	1.15		1
10146	Zirconium	7440-67-7	6.25		0.965	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.85		0.0919	0.460		2
06126	Barium	7440-39-3	133		0.124	0.460		2

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Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.830	0.0184	0.115		2
06128	Cadmium	7440-43-9	0.107 J	0.0460	0.115		2
06131	Chromium	7440-47-3	28.2	0.138	0.460		2
06132	Cobalt	7440-48-4	8.97	0.0230	0.115		2
06133	Copper	7440-50-8	11.7	0.0759	0.460		2
06135	Lead	7439-92-1	8.10	0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.293	0.0575	0.115		2
06139	Nickel	7440-02-0	21.2	0.115	0.460		2
06141	Selenium	7782-49-2	0.116 J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0576 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.269	0.0345	0.115		2
06148	Vanadium	7440-62-2	49.7	0.0253	0.115		2
06149	Zinc	7440-66-6	59.4	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.83 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	322	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

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14420 Albemarle Point Place
Suite 210
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42-01 SDG#: DE142-01BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 16:12	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 11:14	Jason M Long	19.84
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 20:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:45	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 20:56	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 20:57	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/08/2011 23:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 20:46	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 17:17	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:14	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:12	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:06	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275761
LLI Group # 1245064
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/11/2011 07:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 18:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 11:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 17:49	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.3	7.5		0.8
06192	Benzene	71-43-2	22	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	21	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	24	0.31	3.7		0.8
06192	Bromodichloromethane	75-27-4	19	0.08	3.7		0.8
06192	Bromoform	75-25-2	17	0.37	3.7		0.8
06192	Bromomethane	74-83-9	17	0.23	3.7		0.8
06192	2-Butanone	78-93-3	180	1.1	7.5		0.8
06192	n-Butylbenzene	104-51-8	24	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	25	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	22	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	20	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	21	0.10	3.7		0.8
06192	Chloroethane	75-00-3	18	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.28	3.7		0.8
06192	Chloroform	67-66-3	20	0.11	3.7		0.8
06192	Chloromethane	74-87-3	20	0.31	3.7		0.8
06192	2-Chlorotoluene	95-49-8	22	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	22	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	18	0.46	4.6		0.78
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.65	3.7		0.8
06192	Dibromochloromethane	124-48-1	19	0.19	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	20	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	19	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	20	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	21	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	21	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	18	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	21	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	19	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	21	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	21	0.18	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	25	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	21	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	19	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	21	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	22	0.06	3.7		0.8
06192	Freon 113	76-13-1	22	0.10	3.7		0.8
06192	Freon 133a	75-88-7	18	0.46	4.6		0.78
06192	Hexachlorobutadiene	87-68-3	21	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	120	1.5	7.5		0.8
06192	Isopropylbenzene	98-82-8	22	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	23	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.20	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	91	0.36	7.5		0.8
06192	Methylene Chloride	75-09-2	33	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	25	0.07	3.7		0.8

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Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	24		0.19	3.7		0.8
06192	Toluene	108-88-3	22		0.08	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	19		0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	20		0.19	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	20		0.25	3.7		0.8
06192	Trichloroethene	79-01-6	21		0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	19		0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	20		0.31	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	22		0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	23		0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	20		0.19	3.7		0.8
06192	m+p-Xylene	179601-23-1	42		0.16	3.7		0.8
06192	o-Xylene	95-47-6	20		0.16	3.7		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110		5.0	15		21.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,500		190	580		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,300	J	1,300	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	580		1
04688	Benzyl alcohol	100-51-6	2,000		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	190		1
04688	4-Chloroaniline	106-47-8	1,200		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,800		19	190		1
04688	2-Chlorophenol	95-57-8	2,000		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		39	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900	39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000	39	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,600	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	19	390		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,900	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190		1
04688	2-Methylphenol	95-48-7	2,000	39	190		1
04688	4-Methylphenol	106-44-5	2,000	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,900	39	190		1
04688	4-Nitroaniline	100-01-6	1,400	77	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,400	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,900	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	39	190		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34		0.78	1.9		1
10138	Acenaphthylene	208-96-8	35		0.39	1.9		1
10138	Anthracene	120-12-7	37		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	48		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	48		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	46		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	43		7.0	21		1
10138	Chrysene	218-01-9	38		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	21		0.78	1.9		1
10138	Diethylphthalate	84-66-2	37		7.0	21		1
10138	Dimethylphthalate	131-11-3	40		7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		7.0	21		1
10138	Fluoranthene	206-44-0	41		0.78	1.9		1
10138	Fluorene	86-73-7	35		0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.78	1.9		1
10138	Naphthalene	91-20-3	35		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	74		7.0	21		1
10138	Phenanthrene	85-01-8	36		0.78	1.9		1
10138	Pyrene	129-00-0	40		0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	18		0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	19		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	72		5.9	12		1
08283	Ethylene glycol	107-21-1	120		5.9	12		1
08283	Propylene glycol	57-55-6	130		5.9	12		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000	5.78	23.0		1
07914	Boron	7440-42-8	220	1.02	5.75		1
01650	Calcium	7440-70-2	5,510	7.05	23.0		1
01654	Iron	7439-89-6	33,900	27.1	115		5
01656	Lithium	7439-93-2	136	0.25	2.3		1
01657	Magnesium	7439-95-4	7,570	2.92	11.5		1
06958	Manganese	7439-96-5	477	0.0896	0.575		1
10145	Phosphorus	7723-14-0	277	0.644	11.5		1
01662	Potassium	7440-09-7	3,150	20.7	57.5		1
01667	Sodium	7440-23-5	1,560	42.9	115		1
07968	Strontium	7440-24-6	139	0.0713	0.575		1
06969	Tin	7440-31-5	432	1.15	11.5		1
06970	Titanium	7440-32-6	1,650	0.437	1.15		1
10146	Zirconium	7440-67-7	117	0.965	5.75		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.16	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.0	0.0929	0.464		2
06126	Barium	7440-39-3	150	0.125	0.464		2
06127	Beryllium	7440-41-7	1.90	0.0186	0.116		2
06128	Cadmium	7440-43-9	1.44	0.0464	0.116		2
06131	Chromium	7440-47-3	42.1	0.139	0.464		2
06132	Cobalt	7440-48-4	79.4	0.0232	0.116		2
06133	Copper	7440-50-8	26.7	0.0766	0.464		2
06135	Lead	7439-92-1	11.8	0.0121	0.232		2
06138	Molybdenum	7439-98-7	13.6	0.0580	0.116		2
06139	Nickel	7440-02-0	36.7	0.116	0.464		2
06141	Selenium	7782-49-2	2.33	0.0464	0.464		2
06142	Silver	7440-22-4	14.0	0.0139	0.116		2
06145	Thallium	7440-28-0	0.848	0.0348	0.116		2
06148	Vanadium	7440-62-2	66.2	0.0255	0.116		2
06149	Zinc	7440-66-6	77.3	0.650	3.48		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.195	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.7	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	517	10.6	35.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	37.9	1.2	5.9		5

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 16:39	Chelsea B Eastep	0.8
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 17:23	Chelsea B Eastep	0.78
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 11:34	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:01	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 21:21	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/08/2011 23:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 21:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 16:11	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:23	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275762
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:23	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 18:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 11:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 18:08	Parker D Lindstrom	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	220	6.8	8.2		0.87
06192	Benzene	71-43-2	23	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	25	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	20	0.08	4.1		0.87
06192	Bromoform	75-25-2	17	0.41	4.1		0.87
06192	Bromomethane	74-83-9	18	0.26	4.1		0.87
06192	2-Butanone	78-93-3	170	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	24	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	25	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	23	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	22	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	21	0.11	4.1		0.87
06192	Chloroethane	75-00-3	19	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.31	4.1		0.87
06192	Chloroform	67-66-3	21	0.12	4.1		0.87
06192	Chloromethane	74-87-3	22	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	23	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	23	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	20	0.48	4.8		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	19	0.21	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	20	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	19	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	21	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	21	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	19	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	19	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	23	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	22	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	26	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	22	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	20	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	22	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	22	0.06	4.1		0.87
06192	Freon 113	76-13-1	25	0.11	4.1		0.87
06192	Freon 133a	75-88-7	19	0.48	4.8		0.82
06192	Hexachlorobutadiene	87-68-3	21	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	110	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	22	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	24	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.21	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	86	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	32	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	26	0.07	4.1		0.87

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Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	20	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	24	0.21	4.1		0.87
06192	Toluene	108-88-3	23	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	18	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	18	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	22	0.21	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	20	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	22	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	21	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	20	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	24	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	22	0.21	4.1		0.87
06192	m+p-Xylene	179601-23-1	43	0.17	4.1		0.87
06192	o-Xylene	95-47-6	21	0.17	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110	4.7	14		19.87
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190		1
04688	Acenaphthylene	208-96-8	1,900	19	190		1
04688	Aniline	62-53-3	1,600	190	580		1
04688	Anthracene	120-12-7	1,900	19	190		1
04688	Benzidine	92-87-5	5,200	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	19	190		1
04688	Benzoic acid	65-85-0	1,600	190	580		1
04688	Benzyl alcohol	100-51-6	1,900	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900	19	190		1
04688	Carbazole	86-74-8	1,900	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	39	190		1
04688	4-Chloroaniline	106-47-8	1,500	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,900	19	190		1
04688	2-Chlorophenol	95-57-8	2,000	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	39	190		1
04688	Chrysene	218-01-9	1,900	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300	120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000	19	190		1
04688	Diethylphthalate	84-66-2	1,900	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900	39	190		1
04688	3,5-Dimethylphenol	108-68-9	2,100	39	190		1
04688	Dimethylphthalate	131-11-3	1,900	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,800	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	390		1
04688	Fluoranthene	206-44-0	1,900	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	580		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190		1
04688	2-Methylphenol	95-48-7	1,900	39	190		1
04688	4-Methylphenol	106-44-5	2,000	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,900	39	190		1
04688	4-Nitroaniline	100-01-6	1,500	78	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	580		1
04688	Phenanthrene	85-01-8	1,900	19	190		1
04688	Phenol	108-95-2	1,900	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	39	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,900		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.77	1.9		1
10138	Acenaphthylene	208-96-8	35		0.39	1.9		1
10138	Anthracene	120-12-7	36		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	49		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	18		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	47		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	46		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	44		6.9	21		1
10138	Chrysene	218-01-9	38		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	22		0.77	1.9		1
10138	Diethylphthalate	84-66-2	36		6.9	21		1
10138	Dimethylphthalate	131-11-3	40		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50		6.9	21		1
10138	Fluoranthene	206-44-0	41		0.77	1.9		1
10138	Fluorene	86-73-7	39		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	38		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	34		0.77	1.9		1
10138	Naphthalene	91-20-3	36		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	72		6.9	21		1
10138	Phenanthrene	85-01-8	36		0.77	1.9		1
10138	Pyrene	129-00-0	41		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	17		0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	19		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	67		5.9	12		1
08283	Ethylene glycol	107-21-1	120		5.9	12		1
08283	Propylene glycol	57-55-6	120		5.9	12		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,800	5.73	22.8		1
07914	Boron	7440-42-8	216	1.01	5.69		1
01650	Calcium	7440-70-2	5,300	6.98	22.8		1
01654	Iron	7439-89-6	31,400	26.8	114		5
01656	Lithium	7439-93-2	134	0.25	2.3		1
01657	Magnesium	7439-95-4	7,120	2.89	11.4		1
06958	Manganese	7439-96-5	516	0.0888	0.569		1
10145	Phosphorus	7723-14-0	268	0.637	11.4		1
01662	Potassium	7440-09-7	3,060	20.5	56.9		1
01667	Sodium	7440-23-5	1,510	42.5	114		1
07968	Strontium	7440-24-6	134	0.0706	0.569		1
06969	Tin	7440-31-5	426	1.14	11.4		1
06970	Titanium	7440-32-6	1,590	0.433	1.14		1
10146	Zirconium	7440-67-7	115	0.956	5.69		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.01	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.44	0.0911	0.455		2
06126	Barium	7440-39-3	121	0.123	0.455		2
06127	Beryllium	7440-41-7	1.51	0.0182	0.114		2
06128	Cadmium	7440-43-9	1.15	0.0455	0.114		2
06131	Chromium	7440-47-3	34.6	0.137	0.455		2
06132	Cobalt	7440-48-4	63.6	0.0228	0.114		2
06133	Copper	7440-50-8	21.7	0.0751	0.455		2
06135	Lead	7439-92-1	10.1	0.0118	0.228		2
06138	Molybdenum	7439-98-7	11.0	0.0569	0.114		2
06139	Nickel	7440-02-0	30.1	0.114	0.455		2
06141	Selenium	7782-49-2	2.17	0.0455	0.455		2
06142	Silver	7440-22-4	11.5	0.0137	0.114		2
06145	Thallium	7440-28-0	0.712	0.0341	0.114		2
06148	Vanadium	7440-62-2	53.2	0.0250	0.114		2
06149	Zinc	7440-66-6	62.7	0.637	3.41		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.193	0.0032	0.110		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1

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Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-015-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 17:01	Chelsea B Eastep	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 17:44	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 11:54	Jason M Long	19.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 21:45	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/09/2011 00:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 21:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 16:24	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 01:27	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:27	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 14:16	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275763
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/12/2011 09:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 14:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 14:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 14:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275764
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		5.78	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.75		1
01650	Calcium	7440-70-2	4,750		7.05	23.0		1
01654	Iron	7439-89-6	30,800		5.41	23.0		1
01656	Lithium	7439-93-2	23.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,700		2.92	11.5		1
06958	Manganese	7439-96-5	355		0.0896	0.575		1
10145	Phosphorus	7723-14-0	154		0.644	11.5		1
01662	Potassium	7440-09-7	1,690		20.7	57.5		1
01667	Sodium	7440-23-5	452		42.9	115		1
07968	Strontium	7440-24-6	25.2		0.0713	0.575		1
06969	Tin	7440-31-5	3.17	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,300		0.437	1.15		1
10146	Zirconium	7440-67-7	6.21		0.965	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.162	J	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.40		0.0911	0.455		2
06126	Barium	7440-39-3	118		0.123	0.455		2
06127	Beryllium	7440-41-7	0.805		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0847	J	0.0455	0.114		2
06131	Chromium	7440-47-3	27.7		0.137	0.455		2
06132	Cobalt	7440-48-4	7.44		0.0228	0.114		2
06133	Copper	7440-50-8	11.3		0.0751	0.455		2
06135	Lead	7439-92-1	7.14		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.294		0.0569	0.114		2
06139	Nickel	7440-02-0	18.5		0.114	0.455		2
06141	Selenium	7782-49-2	0.0767	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0355	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.215		0.0341	0.114		2
06148	Vanadium	7440-62-2	48.5		0.0250	0.114		2
06149	Zinc	7440-66-6	57.4		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275764
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01DUP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	329	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.32	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3		n.a.	13.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3		n.a.	14.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 09:20	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275764
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-01 SDG#: DE142-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 18:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 11:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 18:46	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	J	6.6	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	6.8		0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		25.56
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.66	22.5		1
07914	Boron	7440-42-8	1.00	U	1.00	5.62		1
01650	Calcium	7440-70-2	3,410		6.89	22.5		1
01654	Iron	7439-89-6	23,000		5.30	22.5		1
01656	Lithium	7439-93-2	19.9		0.25	2.2		1
01657	Magnesium	7439-95-4	4,990		2.86	11.2		1
06958	Manganese	7439-96-5	199		0.0877	0.562		1
10145	Phosphorus	7723-14-0	210		0.630	11.2		1
01662	Potassium	7440-09-7	1,580		20.2	56.2		1
01667	Sodium	7440-23-5	683		41.9	112		1
07968	Strontium	7440-24-6	16.9		0.0697	0.562		1
06969	Tin	7440-31-5	3.00	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,180		0.427	1.12		1
10146	Zirconium	7440-67-7	4.90	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256		0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.38		0.0917	0.459		2
06126	Barium	7440-39-3	87.8		0.124	0.459		2

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Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium		7440-41-7	0.654		0.0183	0.115		2
06128	Cadmium		7440-43-9	0.0459	U	0.0459	0.115		2
06131	Chromium		7440-47-3	24.8		0.138	0.459		2
06132	Cobalt		7440-48-4	5.99		0.0229	0.115		2
06133	Copper		7440-50-8	8.58		0.0757	0.459		2
06135	Lead		7439-92-1	4.97		0.0119	0.229		2
06138	Molybdenum		7439-98-7	0.347		0.0573	0.115		2
06139	Nickel		7440-02-0	13.8		0.115	0.459		2
06141	Selenium		7782-49-2	0.133	J	0.0459	0.459		2
06142	Silver		7440-22-4	0.0368	J	0.0138	0.115		2
06145	Thallium		7440-28-0	0.263		0.0344	0.115		2
06148	Vanadium		7440-62-2	42.0		0.0252	0.115		2
06149	Zinc		7440-66-6	49.8		0.642	3.44		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	6.4		0.92	1.1		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3	U	10.3	34.4		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.1		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	345		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.95		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

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Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 18:07	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 12:34	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 22:09	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/17/2011 23:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 22:55	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 17:30	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:06	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2

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Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275765
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-02 SDG#: DE142-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/11/2011 07:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 19:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 12:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 18:52	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.92
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	12		0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.9
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.65	22.5		1
07914	Boron	7440-42-8	3.14	J	1.00	5.62		1
01650	Calcium	7440-70-2	3,410		6.89	22.5		1
01654	Iron	7439-89-6	29,700		5.29	22.5		1
01656	Lithium	7439-93-2	24.3		0.25	2.2		1
01657	Magnesium	7439-95-4	5,330		2.85	11.2		1
06958	Manganese	7439-96-5	458		0.0877	0.562		1
10145	Phosphorus	7723-14-0	108		0.629	11.2		1
01662	Potassium	7440-09-7	2,470		20.2	56.2		1
01667	Sodium	7440-23-5	425		41.9	112		1
07968	Strontium	7440-24-6	22.7		0.0697	0.562		1
06969	Tin	7440-31-5	3.23	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,170		0.427	1.12		1
10146	Zirconium	7440-67-7	5.27	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.278		0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.52		0.0890	0.445		2
06126	Barium	7440-39-3	136		0.120	0.445		2
06127	Beryllium	7440-41-7	0.970		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.116		0.0445	0.111		2
06131	Chromium	7440-47-3	30.2		0.134	0.445		2
06132	Cobalt	7440-48-4	10.5		0.0223	0.111		2
06133	Copper	7440-50-8	12.5		0.0734	0.445		2
06135	Lead	7439-92-1	9.29		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.627		0.0556	0.111		2

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Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	19.3	0.111	0.445		2
06141	Selenium	7782-49-2	0.190 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0574 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.347	0.0334	0.111		2
06148	Vanadium	7440-62-2	53.9	0.0245	0.111		2
06149	Zinc	7440-66-6	59.3	0.623	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	366	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-018-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 18:30	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 12:54	Jason M Long	20.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:23	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:20	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 22:33	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/17/2011 23:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 23:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/10/2011 02:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/10/2011 02:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/10/2011 02:00	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:16	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275766
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-03 SDG#: DE142-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 19:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 12:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 19:04	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3	J	7.4	8.9		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.15	J	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.96
06192	Methylene Chloride	75-09-2	40		0.27	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

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Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.28
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.0	J	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.45
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
	The LCS recovery for formaldehyde is outside the QC limits. The sample surrogates are also outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.51	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.69	22.6		1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	1.01	U	1.01	5.66		1
01650	Calcium	7440-70-2	4,060		6.94	22.6		1
01654	Iron	7439-89-6	27,300		5.33	22.6		1
01656	Lithium	7439-93-2	20.6		0.25	2.3		1
01657	Magnesium	7439-95-4	5,170		2.88	11.3		1
06958	Manganese	7439-96-5	355		0.0883	0.566		1
10145	Phosphorus	7723-14-0	126		0.634	11.3		1
01662	Potassium	7440-09-7	2,260		20.4	56.6		1
01667	Sodium	7440-23-5	374		42.2	113		1
07968	Strontium	7440-24-6	24.7		0.0702	0.566		1
06969	Tin	7440-31-5	2.85	J	1.13	11.3		1
06970	Titanium	7440-32-6	918		0.430	1.13		1
10146	Zirconium	7440-67-7	5.39	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.217	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.99		0.0906	0.453		2
06126	Barium	7440-39-3	140		0.122	0.453		2
06127	Beryllium	7440-41-7	0.820		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.218		0.0453	0.113		2
06131	Chromium	7440-47-3	26.2		0.136	0.453		2
06132	Cobalt	7440-48-4	10.1		0.0226	0.113		2
06133	Copper	7440-50-8	10.6		0.0747	0.453		2
06135	Lead	7439-92-1	7.71		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.457		0.0566	0.113		2
06139	Nickel	7440-02-0	24.7		0.113	0.453		2
06141	Selenium	7782-49-2	0.0961	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0559	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.268		0.0340	0.113		2
06148	Vanadium	7440-62-2	44.9		0.0249	0.113		2
06149	Zinc	7440-66-6	52.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-04 SDG#: DE142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	384		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 18:52	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 13:13	Jason M Long	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:28	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:46	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:26	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011 15:16	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011 22:58	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 00:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

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42-04 SDG#: DE142-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 13:30	Elizabeth J Marin	23.45
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:25	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 04:26	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111440006A	05/27/2011 00:38	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 23:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111440006A	05/24/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 15:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 15:59	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 17:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 02:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2

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Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275767
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42-04 SDG#: DE142-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 19:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201B	05/17/2011 19:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 13:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 19:29	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.9
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.9
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.9
06192	Methylene Chloride	75-09-2	11		0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	28.5	J	19.4	38.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
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Collected: 05/03/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

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42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
	The LCS recovery for formaldehyde is outside the QC limits. The sample surrogates are also outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	J	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.61	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.77	23.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	1.53	J	1.02	5.74		1
01650	Calcium	7440-70-2	5,640		7.04	23.0		1
01654	Iron	7439-89-6	33,700		27.0	115		5
01656	Lithium	7439-93-2	23.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,890		2.92	11.5		1
06958	Manganese	7439-96-5	510		0.0895	0.574		1
10145	Phosphorus	7723-14-0	193		0.643	11.5		1
01662	Potassium	7440-09-7	4,010		20.7	57.4		1
01667	Sodium	7440-23-5	243		42.8	115		1
07968	Strontium	7440-24-6	30.5		0.0712	0.574		1
06969	Tin	7440-31-5	2.86	J	1.15	11.5		1
06970	Titanium	7440-32-6	947		0.436	1.15		1
10146	Zirconium	7440-67-7	6.26		0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.296		0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0937	0.468		2
06126	Barium	7440-39-3	153		0.126	0.468		2
06127	Beryllium	7440-41-7	0.966		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.264		0.0468	0.117		2
06131	Chromium	7440-47-3	34.1		0.141	0.468		2
06132	Cobalt	7440-48-4	10.1		0.0234	0.117		2
06133	Copper	7440-50-8	17.4		0.0773	0.468		2
06135	Lead	7439-92-1	10.6		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.518		0.0585	0.117		2
06139	Nickel	7440-02-0	21.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.161	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0554	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.383		0.0351	0.117		2
06148	Vanadium	7440-62-2	55.4		0.0258	0.117		2
06149	Zinc	7440-66-6	71.4		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	396		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011	19:15	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011	13:33	Jason M Long	21.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011	21:33	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011	21:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011	21:47	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011	21:31	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011	16:06	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011	23:22	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011	00:54	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011	08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011	09:20	Kelli M Barto	1

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Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 14:07	Elizabeth J Marin	20.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:30	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 05:08	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111440006A	05/27/2011 00:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/09/2011 23:50	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111440006A	05/24/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 16:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 16:14	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 17:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 04:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 02:03	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:16	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 14:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2

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Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275768
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-05 SDG#: DE142-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 14:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 14:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 14:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 19:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201B	05/17/2011 19:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/20/2011 16:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 19:41	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:24	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	U	7.8	9.3		0.95
06192	Benzene	71-43-2	0.12	U	0.12	4.6		0.95
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		0.95
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		0.95
06192	Bromoform	75-25-2	0.47	U	0.47	4.6		0.95
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		0.95
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		0.95
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		0.95
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		0.95
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		0.95
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		0.95
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		0.95
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		0.95
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		0.95
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		0.95
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		0.95
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		0.95
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		0.95
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		0.95
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		0.95
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		0.95
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		0.95
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		0.95
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		0.95
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		0.95
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		0.95
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		0.95
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		0.95
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		0.95
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		0.95
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		0.95
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		0.95
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		0.95
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		0.95
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		0.95
06192	Methylene Chloride	75-09-2	14		0.28	4.6		0.95
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		0.95

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Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		0.95
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		0.95
06192	Toluene	108-88-3	0.09	J	0.09	4.6		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		0.95
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		0.95
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.6		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		0.95
06192	Vinyl Chloride	75-01-4	0.27	J	0.23	4.6		0.95
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		0.95
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	41.4		20.4	40.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1

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Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.8	J	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.44
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	740	U	740	1,800		1
	The LCS recovery for formaldehyde is outside the QC limits. The sample surrogates are also outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	0.67	J	0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	12		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	12		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		5.99	23.8		1

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Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	4.28	J	1.06	5.96		1
01650	Calcium	7440-70-2	6,820		7.30	23.8		1
01654	Iron	7439-89-6	32,000		5.61	23.8		1
01656	Lithium	7439-93-2	25.9		0.26	2.4		1
01657	Magnesium	7439-95-4	7,770		3.03	11.9		1
06958	Manganese	7439-96-5	265		0.0929	0.596		1
10145	Phosphorus	7723-14-0	404		0.667	11.9		1
01662	Potassium	7440-09-7	3,090		21.4	59.6		1
01667	Sodium	7440-23-5	198		44.4	119		1
07968	Strontium	7440-24-6	33.9		0.0739	0.596		1
06969	Tin	7440-31-5	2.98	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,280		0.453	1.19		1
10146	Zirconium	7440-67-7	7.59		1.00	5.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0708	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.35		0.0944	0.472		2
06126	Barium	7440-39-3	126		0.127	0.472		2
06127	Beryllium	7440-41-7	0.915		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.238		0.0472	0.118		2
06131	Chromium	7440-47-3	34.6		0.142	0.472		2
06132	Cobalt	7440-48-4	9.80		0.0236	0.118		2
06133	Copper	7440-50-8	16.7		0.0779	0.472		2
06135	Lead	7439-92-1	9.71		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.277		0.0590	0.118		2
06139	Nickel	7440-02-0	21.3		0.118	0.472		2
06141	Selenium	7782-49-2	0.0968	J	0.0472	0.472		2
06142	Silver	7440-22-4	0.0414	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.303		0.0354	0.118		2
06148	Vanadium	7440-62-2	61.1		0.0260	0.118		2
06149	Zinc	7440-66-6	73.0		0.661	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.98	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	J	0.25	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	400		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.64		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011	19:38	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011	13:52	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011	21:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011	21:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011	21:47	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011	21:36	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011	16:22	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/07/2011	23:46	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011	01:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011	08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011	09:20	Kelli M Barto	1

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Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 14:43	Elizabeth J Marin	22.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:36	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 05:50	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111440006A	05/27/2011 00:57	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/10/2011 00:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111440006A	05/24/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111240030A	05/07/2011 16:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 16:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 18:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 05:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111240030A	05/05/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:27	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 14:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2

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Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275769
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-06 SDG#: DE142-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 14:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 14:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 14:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 20:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621201B	05/17/2011 20:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 14:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 20:00	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:25	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	4.9	0.010	0.010		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 20:29	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111291AA	05/09/2011 11:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111262AA	05/06/2011 20:29	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111291AA	05/09/2011 11:48	Jason M Long	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11129WAB026	05/11/2011 15:54	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11129WAB026	05/09/2011 16:00	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111250013A	05/09/2011 17:05	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111250013A	05/05/2011 16:50	JoElla L Rice	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111240028A	05/10/2011 17:51	Dustin A Underkoffler	1
01743	Aluminum	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111241848005	05/11/2011 12:18	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111241848005	05/09/2011 03:41	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111246050002D	05/06/2011 14:03	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB08-SA8N-SB-050311 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275770
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-07 SDG#: DE142-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06038	Molybdenum	SW-846 6020	1	111246050002C	05/06/2011 14:03	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111246050002B	05/06/2011 14:03	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111246050002A	05/06/2011 14:03	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111305713002	05/11/2011 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111241848005	05/05/2011 09:40	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111246050002	05/05/2011 09:38	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111305713002	05/10/2011 16:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11135196903C	05/16/2011 13:07	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11132621701A	05/12/2011 15:14	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11124196401B	05/04/2011 11:23	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11125020001A	05/05/2011 21:00	Luz M Groff	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.85
06192	Methylene Chloride	75-09-2	10		0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,900		5.60	22.3		1
07914	Boron	7440-42-8	0.992	U	0.992	5.57		1
01650	Calcium	7440-70-2	5,490		6.83	22.3		1
01654	Iron	7439-89-6	32,700		26.2	111		5
01656	Lithium	7439-93-2	25.7		0.25	2.2		1
01657	Magnesium	7439-95-4	7,020		2.83	11.1		1
06958	Manganese	7439-96-5	291		0.0869	0.557		1
10145	Phosphorus	7723-14-0	237		0.624	11.1		1
01662	Potassium	7440-09-7	1,870		20.1	55.7		1
01667	Sodium	7440-23-5	536		41.6	111		1
07968	Strontium	7440-24-6	29.2		0.0691	0.557		1
06969	Tin	7440-31-5	3.21	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,050		0.423	1.11		1
10146	Zirconium	7440-67-7	5.79		0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.384		0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.24		0.0900	0.450		2
06126	Barium	7440-39-3	142		0.121	0.450		2

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SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

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Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.944	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.136	0.0450	0.112		2
06131	Chromium	7440-47-3	30.8	0.135	0.450		2
06132	Cobalt	7440-48-4	11.7	0.0225	0.112		2
06133	Copper	7440-50-8	15.5	0.0742	0.450		2
06135	Lead	7439-92-1	9.20	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.431	0.0562	0.112		2
06139	Nickel	7440-02-0	25.6	0.112	0.450		2
06141	Selenium	7782-49-2	0.0914 J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0754 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.353	0.0337	0.112		2
06148	Vanadium	7440-62-2	53.5	0.0247	0.112		2
06149	Zinc	7440-66-6	68.1	0.630	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056 J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.1	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	390	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
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Project Name: SSFL Area IV Collocated Soil Sampling

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42-08 SDG#: DE142-08FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 21:51	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 14:12	Jason M Long	21.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112424311	05/04/2011 21:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112424311	05/04/2011 21:47	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112424311	05/04/2011 21:41	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/08/2011 00:10	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 01:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111250016A	05/10/2011 00:27	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111250016A	05/06/2011 05:00	Roman Kuropatkin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111240029A	05/05/2011 18:23	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111240029A	05/05/2011 10:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
07914	Boron	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
01654	Iron	SW-846 6010B	1	111255708001	05/10/2011 02:06	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
06969	Tin	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	111255708001	05/08/2011 10:30	Damary Valentin	1
06124	Antimony	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111251026001D	05/09/2011 14:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111251026001A	05/11/2011 07:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275771
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-08 SDG#: DE142-08FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111251026001C	05/09/2011 14:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111251026001B	05/09/2011 14:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111251026001A	05/09/2011 14:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111255711002	05/06/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111255708001	05/05/2011 21:10	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111251026001	05/05/2011 20:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111255711002	05/05/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621201B	05/17/2011 20:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11129621201A	05/11/2011 14:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 20:06	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621201B	05/16/2011 12:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11129621201A	05/09/2011 13:25	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11125182101B	05/05/2011 11:15	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11125039401B	05/05/2011 11:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-050311 Water
SSFL Area IV Collocated Soil Sampling
TB-050311

LLI Sample # WW 6275772
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 08:00

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-09 SDG#: DE142-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-050311 Water
SSFL Area IV Collocated Soil Sampling
TB-050311

LLI Sample # WW 6275772
LLI Group # 1245064
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 08:00

Submitted: 05/04/2011 09:40
Reported: 06/03/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42-09 SDG#: DE142-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 20:51	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111291AA	05/09/2011 12:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111262AA	05/06/2011 20:51	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111291AA	05/09/2011 12:08	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11131A20A	05/12/2011 17:43	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11131A20A	05/12/2011 17:43	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111261AA	Sample number(s): 6275761-6275763,6275765-6275769,6275771									
Acetone	6.7	U	6.7	8.0	ug/kg	131		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	107		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	106		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	91		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	80		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	112		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	116		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	121*		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	100		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	92		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	110		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	96		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	105		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	104		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	97		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	119		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	95		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	110		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	112		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	116		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	102		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	96		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	122*		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	106		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	115		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E111291AA	Sample number(s): 6275770,6275772									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	101	80-123	1	30
Batch number: E111301AA	Sample number(s): 6275761-6275763,6275765-6275769,6275771									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	113	70-130	2	30
Batch number: L111262AA	Sample number(s): 6275770,6275772									
Acetone	6	U	6.	20	ug/l	113	123	49-234	8	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	104	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	90	92	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	93	93	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	95	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	105	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	95	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	104	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	85	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	82	82	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	92	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	90	93	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	111	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	87	90	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	91	92	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	100	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	96	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	95	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	81	82	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	84	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Styrene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	87	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	99	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	98	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	102	102	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	111	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	92	93	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	91	92	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	88	92	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	0	30

Batch number: 11125SLB026 Sample number(s): 6275761-6275763,6275765-6275769,6275771

Acenaphthene	17 U	17.	170	ug/kg	98	76-111	
Acenaphthylene	17 U	17.	170	ug/kg	100	75-122	
Aniline	170 U	170.	500	ug/kg	78	34-94	
Anthracene	17 U	17.	170	ug/kg	98	76-112	
Benzidine	1,200 U	1,200.	3,300	ug/kg	51	15-121	
Benzo(a)anthracene	17 U	17.	170	ug/kg	100	73-112	
Benzo(a)pyrene	17 U	17.	170	ug/kg	96	69-122	
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	95	61-127	
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	88	65-122	
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	97	67-125	
Benzoic acid	170 U	170.	500	ug/kg	84	62-113	
Benzyl alcohol	170 U	170.	500	ug/kg	100	68-111	
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	92	79-117	
Butylbenzylphthalate	17 U	17.	170	ug/kg	108	75-115	

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	98		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	103		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	88		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	54		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	72		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	44		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	64		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	99		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	94		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	74		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	99		58-112		
Pyrene	17	U	17.	170	ug/kg	108		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11125SLC026	Sample number(s): 6275761-6275763,6275765-6275769,6275771									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	102		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11125SLF026	Sample number(s): 6275767-6275769									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 11129WAB026	Sample number(s): 6275770									
Aniline	1	U	1.	5	ug/l	85	82	49-101	3	30
Benzidine	20	U	20.	60	ug/l	68	64	34-117	6	30
Benzoic acid	6	U	6.	15	ug/l	41	29	10-69	34*	30
Benzyl alcohol	5	U	5.	15	ug/l	87	78	66-97	11	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	97	97	82-117	0	30
Carbazole	1	U	1.	5	ug/l	99	93	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	99	93	70-123	7	30
4-Chloroaniline	1	U	1.	5	ug/l	68	74	42-124	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	98	93	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	89	77-108	6	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	95	89	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	70	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	97	86	77-108	12	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	99	100	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	99	95	83-108	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	85	55-118	10	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	85	50-119	8	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	91	83	53-119	9	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	58	64	49-111	9	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	96	80-109	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	92	72-110	5	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	99	94	70-130	6	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	102	98	78-119	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	85	83	52-131	3	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	99	97	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	99	94	85-115	5	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	101	90	78-116	12	30
Hexachlorobenzene	1	U	1.	5	ug/l	102	105	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	97	88	57-124	9	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	83	79	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	89	82	52-113	8	30
Isophorone	1	U	1.	5	ug/l	100	96	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	87	74	64-101	17	30
4-Methylphenol	2	U	2.	5	ug/l	79	67	61-103	16	30
2-Nitroaniline	1	U	1.	5	ug/l	98	93	83-116	5	30
3-Nitroaniline	1	U	1.	5	ug/l	99	91	74-113	8	30
4-Nitroaniline	1	U	1.	5	ug/l	84	77	59-100	8	30
Nitrobenzene	1	U	1.	5	ug/l	97	93	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	98	94	86-120	4	30
4-Nitrophenol	10	U	10.	30	ug/l	47	33	16-78	36*	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	95	90	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	90	67-136	6	30
Pentachlorophenol	3	U	3.	15	ug/l	96	96	53-110	0	30
Phenol	1	U	1.	5	ug/l	43	30	21-67	34*	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	90	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	99	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	98	81-113	2	30
Batch number: 11126A34A	Sample number(s): 6275767-6275769									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	74	67-119	1	30
Batch number: 11131A20A	Sample number(s): 6275772									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111300004A	Sample number(s): 6275767-6275769									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	100	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	104		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	105		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111440006A	Sample number(s): 6275767-6275769									
25a Formaldehyde 8315A	600		600.	1,500	ug/kg	66*		80-126		
	U									
Batch number: 111250013A	Sample number(s): 6275770									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	70	84	35-84	18	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	92	94	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	100	100	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111250016A	Sample number(s): 6275761-6275763,6275765-6275769,6275771									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	80	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111240030A	Sample number(s): 6275767-6275769									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		54-107		
Batch number: 111240028A	Sample number(s): 6275770									
Diethylene glycol	10	U	10.	100	mg/l	100		78-126		
Ethylene glycol	10	U	10.	100	mg/l	100		80-124		
Propylene glycol	10	U	10.	100	mg/l	90		80-120		
Batch number: 111240029A	Sample number(s): 6275761-6275763,6275765,6275767-6275769,6275771									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	98		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Batch number: 111250027A	Sample number(s): 6275767-6275769									
Ethanol	100		100.	500	ug/kg	96		71-129		
	U									
Isopropanol	100		100.	500	ug/kg	96		75-125		
	U									
Methanol	100		100.	500	ug/kg	92		68-129		
	U									
Batch number: 111270006A	Sample number(s): 6275767-6275769									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	89		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111241848005	Sample number(s): 6275770								
Aluminum	0.0834 U	0.0834	0.200	mg/l	97	98	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	96	96	89-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	103	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	103	102	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	102	104	80-120	2	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	100	100	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	102	103	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	101	102	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	101	101	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	102	104	90-110	2	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	103	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	103	103	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	96	99	80-120	2	20
Batch number: 111246050002A	Sample number(s): 6275770								
Antimony	0.00030 U	0.00030	0.0010	mg/l	98	107	87-110	9	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	90	106	86-111	16	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	99	102	90-112	2	20
Cadmium	0.00038 J	0.00020	0.00050	mg/l	103	92	90-114	11	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	101	100	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	105	103	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	101	90-113	1	20
Lead	0.000054 J	0.00005 2	0.0010	mg/l	103	103	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	104	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	103	105	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	96	100	89-116	4	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	101	102	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	98	90-116	6	20
Batch number: 111246050002B	Sample number(s): 6275770								
Selenium	0.00025 U	0.00025	0.0020	mg/l	105	102	85-114	3	20
Batch number: 111246050002C	Sample number(s): 6275770								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	99	89-115	3	20
Batch number: 111246050002D	Sample number(s): 6275770								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	104	88-113	1	20
Batch number: 111251026001A	Sample number(s): 6275761-6275769,6275771								
Antimony	0.0600 U	0.0600	0.200	mg/kg	120		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	102		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	103		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	106		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	104		83-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0265	J	0.0220	0.100	mg/kg	106		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111251026001B	Sample number(s): 6275761-6275769,6275771									
Selenium	0.0400	U	0.0400	0.400	mg/kg	105		83-111		
Batch number: 111251026001C	Sample number(s): 6275761-6275769,6275771									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	119		78-122		
Batch number: 111251026001D	Sample number(s): 6275761-6275769,6275771									
Barium	0.108	U	0.108	0.400	mg/kg	106		81-111		
Batch number: 111255708001	Sample number(s): 6275761-6275769,6275771									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	96		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	106		89-112		
Phosphorus	1.25	J	0.560	10.0	mg/kg	101		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.48	J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	93		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111255711002	Sample number(s): 6275761-6275769,6275771									
Mercury	0.0028	U	0.0028	0.0970	mg/kg	103		88-123		
Batch number: 111305713002	Sample number(s): 6275770									
Mercury	0.000046	U	0.00004 6	0.00020	mg/l	86	88	80-120	3	20
Batch number: 11124196401B	Sample number(s): 6275770									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	98	90-110	5	20
Batch number: 11129621201A	Sample number(s): 6275761-6275762,6275764-6275769,6275771									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11131102201A	Sample number(s): 6275767-6275769									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11132621701A	Sample number(s): 6275770									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	89	86	85-115	3	20
Batch number: 11135196903C	Sample number(s): 6275770									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	101	102	90-110	1	20
Batch number: 11136621201B	Sample number(s): 6275761-6275762,6275764-6275769,6275771									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11139243201A	Sample number(s): 6275761-6275762,6275764-6275769,6275771									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11125020001A	Sample number(s): 6275770									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
18b pH by 9040B					100	100	90-110	0	1
Batch number: 11125039401B	Sample number(s): 6275761,6275764-6275769,6275771								
18a pH by 9045C					100		95-105		
Batch number: 11125182101B	Sample number(s): 6275761,6275764-6275769,6275771								
32a OR Potential					99		98-102		
Batch number: 11133162402A	Sample number(s): 6275761-6275766,6275771								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11145162401B	Sample number(s): 6275767-6275769								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111261AA	Sample number(s): 6275761-6275763,6275765-6275769,6275771 UNSPK: 6275761								
Acetone	159	143	15-210	1	30				
Benzene	117	111	55-143	4	30				
Bromobenzene	115	108	43-139	3	30				
Bromochloromethane	126	121	60-137	5	30				
Bromodichloromethane	100	96	53-136	5	30				
Bromoform	93	85	38-124	0	30				
Bromomethane	92	90	42-168	7	30				
2-Butanone	126	109	37-163	5	30				
n-Butylbenzene	127	119	30-146	2	30				
sec-Butylbenzene	133	124	33-157	3	30				
tert-Butylbenzene	118	112	41-152	4	30				
Carbon Tetrachloride	109	106	45-153	7	30				
Chlorobenzene	112	105	49-135	2	30				
Chloroethane	94	95	39-152	10	30				
2-Chloroethyl Vinyl Ether	97	89	32-139	1	30				
Chloroform	108	105	61-142	6	30				
Chloromethane	107	107	51-163	9	30				
2-Chlorotoluene	119	114	42-146	5	30				
4-Chlorotoluene	116	110	39-145	4	30				
Chlorotrifluoroethene	99	104	70-130	9	30				
1,2-Dibromo-3-chloropropane	96	82	30-139	7	30				
Dibromochloromethane	99	92	51-128	2	30				
1,2-Dibromoethane	105	96	54-129	1	30				
Dibromomethane	100	94	57-130	3	30				
1,2-Dichlorobenzene	109	101	36-133	1	30				
1,3-Dichlorobenzene	112	105	34-134	3	30				
1,4-Dichlorobenzene	110	104	35-136	4	30				
Dichlorodifluoromethane	94	94	26-151	9	30				
1,1-Dichloroethane	111	108	63-142	7	30				
1,2-Dichloroethane	99	94	68-131	3	30				

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloroethene	113	111	61-149	8	30				
cis-1,2-Dichloroethene	112	106	60-136	3	30				
trans-1,2-Dichloroethene	135	126	59-142	2	30				
1,2-Dichloropropane	110	106	62-135	5	30				
1,3-Dichloropropane	108	99	58-129	1	30				
2,2-Dichloropropane	101	100	53-147	8	30				
1,1-Dichloropropene	114	110	54-145	5	30				
cis-1,3-Dichloropropene	100	96	51-131	5	30				
trans-1,3-Dichloropropene	95	90	49-129	4	30				
Ethylbenzene	115	107	44-141	2	30				
Freon 113	119	121	56-156	11	30				
Freon 133a	97	99	61-131	6	30				
Hexachlorobutadiene	112	104	10-155	1	30				
2-Hexanone	128	111	32-160	6	30				
Isopropylbenzene	118	109	38-144	1	30				
p-Isopropyltoluene	124	118	29-152	4	30				
Methyl Tertiary Butyl Ether	106	95	55-129	1	30				
4-Methyl-2-pentanone	97	84	46-139	5	30				
Methylene Chloride	135	120	61-141	2	30				
n-Propylbenzene	133	125	39-157	3	30				
Styrene	105	97	35-134	2	30				
1,1,1,2-Tetrachloroethane	107	100	52-130	3	30				
1,1,2,2-Tetrachloroethane	111	98	40-152	3	30				
Tetrachloroethene	127	118	42-149	2	30				
Toluene	117	110	50-146	4	30				
1,2,3-Trichlorobenzene	102	90	10-140	3	30				
1,2,4-Trichlorobenzene	97	88	10-136	1	30				
1,1,1-Trichloroethane	109	107	64-142	7	30				
1,1,2-Trichloroethane	106	97	54-139	1	30				
Trichloroethene	111	106	53-144	4	30				
Trichlorofluoromethane	103	100	47-163	6	30				
1,2,3-Trichloropropane	109	99	45-154	1	30				
1,2,4-Trimethylbenzene	118	113	37-149	5	30				
1,3,5-Trimethylbenzene	123	116	38-150	3	30				
Vinyl Chloride	108	108	50-154	9	30				
m+p-Xylene	112	106	44-137	3	30				
o-Xylene	108	101	42-137	3	30				
Batch number: E111301AA	Sample number(s): 6275761-6275763,6275765-6275769,6275771 UNSPK: 6275761								
1,4-Dioxane	91	91	70-130	6	30				
Batch number: 11125SLB026	Sample number(s): 6275761-6275763,6275765-6275769,6275771 UNSPK: 6275761								
Acenaphthene	93	93	75-115	1	30				
Acenaphthylene	97	98	81-110	2	30				
Aniline	76	82	35-95	8	30				
Anthracene	94	96	75-115	3	30				
Benzidine	34*	54	35-141	44*	30				
Benzo(a)anthracene	96	96	65-122	1	30				
Benzo(a)pyrene	93	93	57-126	1	30				
Benzo(b)fluoranthene	96	94	59-125	1	30				
Benzo(g,h,i)perylene	83	85	59-127	3	30				
Benzo(k)fluoranthene	91	92	56-132	1	30				
Benzoic acid	71	84	10-173	17	30				

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	102	100	67-115	2	30				
4-Bromophenyl-phenylether	91	92	67-129	2	30				
Butylbenzylphthalate	102	106	73-134	4	30				
Di-n-butylphthalate	94	97	67-123	4	30				
Carbazole	94	97	64-120	3	30				
4-Chloro-3-methylphenol	99	100	76-110	1	30				
4-Chloroaniline	63	75	23-95	19	30				
bis(2-Chloroethoxy)methane	94	94	75-104	0	30				
bis(2-Chloroethyl)ether	96	95	60-116	1	30				
bis(2-Chloroisopropyl)ether	90	91	55-142	2	30				
2-Chloronaphthalene	95	96	50-141	2	30				
2-Chlorophenol	103	102	73-121	1	30				
4-Chlorophenyl-phenylether	94	94	80-109	1	30				
Chrysene	97	99	62-128	3	30				
Dibenz(a,h)anthracene	85	86	65-125	2	30				
Dibenzofuran	96	94	71-112	1	30				
1,2-Dichlorobenzene	86	88	66-108	2	30				
1,3-Dichlorobenzene	85	84	63-109	0	30				
1,4-Dichlorobenzene	85	83	70-100	1	30				
3,3'-Dichlorobenzidine	54	69	16-119	24	30				
2,4-Dichlorophenol	102	101	78-117	1	30				
Diethylphthalate	95	97	66-118	3	30				
2,4-Dimethylphenol	98	99	78-110	2	30				
3,5-Dimethylphenol	105	108	70-130	3	30				
Dimethylphthalate	95	96	64-118	2	30				
4,6-Dinitro-2-methylphenol	84	88	24-116	5	30				
2,4-Dinitrophenol	66	72	20-143	9	30				
2,4-Dinitrotoluene	97	98	73-113	1	30				
2,6-Dinitrotoluene	96	98	69-123	3	30				
1,2-Diphenylhydrazine	96	99	71-129	4	30				
bis(2-Ethylhexyl)phthalate	100	101	63-122	2	30				
Fluoranthene	96	99	73-112	3	30				
Fluorene	96	95	77-111	1	30				
Hexachlorobenzene	90	92	77-114	3	30				
Hexachlorobutadiene	87	88	62-120	2	30				
Hexachlorocyclopentadiene	65	68	10-153	5	30				
Hexachloroethane	81	78	57-109	2	30				
Indeno(1,2,3-cd)pyrene	83	83	61-126	1	30				
Isophorone	93	94	73-102	2	30				
1-Methylnaphthalene	97	97	73-112	1	30				
2-Methylnaphthalene	91	91	76-114	0	30				
2-Methylphenol	102	100	75-111	1	30				
4-Methylphenol	102	102	71-111	0	30				
Naphthalene	93	94	72-116	2	30				
2-Nitroaniline	98	99	67-125	2	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	75	78	52-112	5	30				
Nitrobenzene	94	95	72-106	2	30				
2-Nitrophenol	96	96	74-115	1	30				
4-Nitrophenol	90	92	54-113	3	30				
N-Nitroso-di-n-propylamine	96	96	60-116	1	30				
N-Nitrosodimethylamine	87	86	47-116	1	30				
N-Nitrosodiphenylamine	94	96	86-145	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	100	103	56-126	3	30				
Pentachlorophenol	74	83	28-127	12	30				
Phenanthrene	94	95	65-125	2	30				
Phenol	101	100	58-126	0	30				
Pyrene	104	104	74-126	1	30				
1,2,4-Trichlorobenzene	93	93	72-115	1	30				
2,4,5-Trichlorophenol	95	95	78-109	1	30				
2,4,6-Trichlorophenol	94	96	77-115	3	30				
Batch number: 11125SLC026	Sample number(s): 6275761-6275763,6275765-6275769,6275771 UNSPK: 6275761								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	91	90	67-114	2	30				
Anthracene	94	93	60-122	2	30				
Benzo(a)anthracene	101	101	59-128	1	30				
Benzo(a)pyrene	96	95	45-138	2	30				
Benzo(b)fluoranthene	124	126	43-155	1	30				
Benzo(g,h,i)perylene	41	46	33-141	10	30				
Benzo(k)fluoranthene	123	123	42-144	1	30				
Butylbenzylphthalate	119	120	57-173	0	30				
Di-n-butylphthalate	91	92	65-148	0	30				
Chrysene	97	99	48-134	1	30				
Dibenz(a,h)anthracene	55	58	22-133	6	30				
Diethylphthalate	95	93	70-136	2	30				
Dimethylphthalate	102	103	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	110	107	39-167	2	30				
Fluoranthene	106	106	26-166	1	30				
Fluorene	91	100	66-122	9	30				
Indeno(1,2,3-cd)pyrene	50	53	21-143	6	30				
1-Methylnaphthalene	96	97	72-123	1	30				
2-Methylnaphthalene	86	87	64-103	1	30				
Naphthalene	91	93	61-102	2	30				
N-Nitrosodimethylamine	86	87	48-113	1	30				
Di-n-octylphthalate	164	161	40-192	2	30				
Phenanthrene	92	94	12-165	2	30				
Pyrene	104	105	15-153	0	30				
Batch number: 11125SLF026	Sample number(s): 6275767-6275769 UNSPK: 6275767								
N-Nitrosodimethylamine	72	71	70-130	2	30				
Batch number: 111300004A	Sample number(s): 6275767-6275769 UNSPK: P273941								
4-Amino-2,6-Dinitrotoluene	107	109	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	101	101	80-131	0	50				
2,6-Dinitrotoluene	103	104	80-127	2	50				
HMX	92	92	63-128	0	50				
Nitrobenzene	96	98	80-125	2	50				
Nitroglycerin	94	95	80-120	0	50				
2-Nitrotoluene	98	98	80-122	0	50				
3-Nitrotoluene	101	101	72-119	0	50				
4-Nitrotoluene	97	97	80-125	0	50				
PETN	120	122*	80-121	1	50				
RDX	94	95	75-129	1	50				

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetryl	91	88	55-174	3	50				
1,3,5-Trinitrobenzene	100	101	82-126	1	50				
2,4,6-Trinitrotoluene	106	106	82-130	1	50				
Batch number: 111440006A	Sample number(s): 6275767-6275769 UNSPK: P293457								
25a Formaldehyde 8315A	60*	58*	80-120	3	50				
Batch number: 111250016A	Sample number(s): 6275761-6275763,6275765-6275769,6275771 UNSPK: 6275761								
PCB-1016	92	88	29-146	4	50				
PCB-1260	98	97	39-149	1	50				
Batch number: 111240030A	Sample number(s): 6275767-6275769 UNSPK: P272812								
EFH (C12-C14)	87	86	49-123	1	20				
EFH (C15-C20)	116	103	49-123	12	20				
EFH (C21-C30)	299*	52	49-123	102*	20				
EFH (C30 - C40)	393*	-9*	49-123	124*	20				
EFH (C8-C11)	54	53	49-123	2	20				
Batch number: 111240028A	Sample number(s): 6275770 UNSPK: 6275770								
Diethylene glycol	95	110	83-130	15	20				
Ethylene glycol	95	100	89-125	5	20				
Propylene glycol	90*	90*	91-128	0	20				
Batch number: 111240029A	Sample number(s): 6275761-6275763,6275765,6275767-6275769,6275771 UNSPK: 6275761								
Diethylene glycol	29*	27*	59-109	7	20				
Ethylene glycol	47*	44*	63-107	8	20				
Propylene glycol	55*	50*	63-107	10	20				
Batch number: 111250027A	Sample number(s): 6275767-6275769 UNSPK: P277627								
Ethanol	82	85	48-130	4	20				
Isopropanol	84	88	12-149	4	20				
Methanol	76	87	43-138	13	20				
Batch number: 111270006A	Sample number(s): 6275767-6275769 UNSPK: 6275767								
m-Terphenyl	82	82	75-125	1	20				
o-Terphenyl	95	95	75-125	1	20				
p-Terphenyl	88	89	75-125	1	20				
Batch number: 111251026001A	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Antimony	69*	60*	75-125	13	20	0.171 J	0.138 J	21* (1)	20
Arsenic	136*	70*	75-125	17	20	5.84	5.46	7	20
Beryllium	116	74*	75-125	23*	20	0.708	0.686	3	20
Cadmium	115	92	75-125	22*	20	0.0915 J	0.0723 J	23* (1)	20
Chromium	120	56*	75-125	20	20	24.1	23.6	2	20
Cobalt	121	96	75-125	22*	20	7.65	6.35	19	20
Copper	129*	88	75-125	20	20	9.98	9.67	3	20
Lead	107	59*	75-125	15	20	6.91	6.09	13	20
Nickel	134*	79	75-125	20	20	18.1	15.8	13	20
Silver	120	101	75-125	19	20	0.0492 J	0.0303 J	47* (1)	20
Thallium	125	97	75-125	17	20	0.230	0.183	23* (1)	20
Vanadium	142 (2)	32 (2)	75-125	22*	20	42.4	41.4	2	20
Zinc	154 (2)	29 (2)	75-125	21*	20	50.7	49.0	3	20

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111251026001B	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Selenium	95	90	75-125	7	20	0.0988 J	0.0654 J	41* (1)	20
Batch number: 111251026001C	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Molybdenum	115	94	75-125	21*	20	0.250	0.251	0 (1)	20
Batch number: 111251026001D	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Barium	149 (2)	-103 (2)	75-125	21*	20	113	100	12	20
Batch number: 111255708001	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Aluminum	2004 (2)	1508 (2)	75-125	4	20	21,600	20,600	5	20
Boron	96	95	84-115	2	20	0.873 U	0.873 U	0 (1)	20
Calcium	147 (2)	104 (2)	75-125	4	20	4,120	4,050	2	20
Iron	1899 (2)	-251 (2)	75-125	8	20	27,000	26,300	3	20
Lithium	98	97	82-114	1	20	20.4	20.0	2	20
Magnesium	294 (2)	99 (2)	75-125	6	20	5,880	5,710	3	20
Manganese	-22 (2)	47 (2)	75-125	8	20	418	302	32*	20
Phosphorus	110	104	75-125	3	20	128	131	3	20
Potassium	118	112	75-125	3	20	1,530	1,440	6	20
Sodium	95	92	75-125	3	20	397	386	3 (1)	20
Strontium	98	94	75-115	4	20	22.8	21.5	6	20
Tin	93	93	80-110	1	20	2.75 J	2.71 J	1 (1)	20
Titanium	328 (2)	284 (2)	75-125	3	20	1,080	1,110	2	20
Zirconium	96	96	75-125	1	20	5.33	5.30	1 (1)	20
Batch number: 111255711002	Sample number(s): 6275761-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
Mercury	105	105	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11129621201A	Sample number(s): 6275761-6275762,6275764-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
7a Perchlorate EPA 314.0	87		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11131102201A	Sample number(s): 6275767-6275769 UNSPK: P272817 BKG: P272817								
17a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11136621201B	Sample number(s): 6275761-6275762,6275764-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
11a Anions by 300.0 - Fluoride	60*		80-120			4.9	4.1	19 (1)	20
11a Anions by 300.0 - Nitrate	87		80-120			2.0	1.9	4 (1)	20
Batch number: 11139243201A	Sample number(s): 6275761-6275762,6275764-6275769,6275771 UNSPK: 6275761 BKG: 6275761								
3a Cr VI by EPA 7199	79		75-125			0.71 J	0.42 J	51* (1)	20
Batch number: 11125039401B	Sample number(s): 6275761,6275764-6275769,6275771 BKG: 6275761								
18a pH by 9045C						7.22	7.32	1	1
Batch number: 11125182101B	Sample number(s): 6275761,6275764-6275769,6275771 BKG: 6275761								
32a OR Potential						322	329	2	6

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162402A	Sample number(s): 6275761-6275766,6275771 BKG: 6275761								
28a Moisture Content by 160.3						14.7	13.0	13	20
Moisture Content by 160.3						14.7	13.0	13	20
Moisture Content by 160.3						14.7	13.0	13	20
Batch number: 11145162401B	Sample number(s): 6275767-6275769 BKG: 6275767								
Moisture Content by 160.3						13.4	13.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6275761	94	100	102	92
6275762	95	98	106	98
6275763	95	96	105	96
6275765	93	98	103	91
6275766	95	101	101	94
6275767	95	98	102	91
6275768	96	101	102	91
6275769	95	99	101	89
6275771	95	99	103	89
Blank	94	101	102	93
LCS	95	103	104	97
MS	95	98	106	98
MSD	95	96	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111291AA

	Toluene-d8
6275770	109
6275772	109
Blank	107
LCS	108
LCSD	108
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111301AA

	Toluene-d8
6275761	99

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Quality Control Summary

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Surrogate Quality Control

6275762	99
6275763	99
6275765	99
6275766	99
6275767	99
6275768	99
6275769	99
6275771	99
Blank	99
LCS	99
LCSD	99
MS	99
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6275770	104	103	98	99
6275772	105	103	96	98
Blank	104	102	98	99
LCS	106	102	99	101
LCSD	106	101	98	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11125SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6275761	93	94	92	84	85	86
6275762	95	96	88	88	87	86
6275763	95	98	92	91	89	88
6275765	96	97	94	89	89	90
6275766	92	92	90	85	86	87
6275767	89	90	86	81	83	81
6275768	90	91	88	84	84	86
6275769	97	97	89	84	84	87
6275771	90	89	77	79	81	84
Blank	93	95	89	87	89	87
LCS	93	94	88	86	88	88
MS	95	96	88	88	87	86
MSD	95	98	92	91	89	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11125SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6275761	82	84	107
6275762	96	91	102
6275763	97	91	103
6275765	108	93	96
6275766	102	90	99

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Surrogate Quality Control

6275767	111	102	110
6275768	108	95	104
6275769	96	93	103
6275771	105	97	99
Blank	87	93	103
LCS	103	94	100
MS	96	91	102
MSD	97	91	103
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11125SLF026

	N-Nitrosodimethylamine-d6
6275767	100
6275768	105
6275769	101
Blank	99
LCS	102
MS	107
MSD	111
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11129WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6275770	40	23	103	86	89	77
Blank	63	38	96	93	91	81
LCS	65	42	98	93	94	82
LCSD	49	31	105	90	89	79
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11126A34A

	Trifluorotoluene-F
6275767	75
6275768	77
6275769	73
Blank	83
LCS	88
LCSD	88
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11131A20A

	Trifluorotoluene-F
6275772	73
Blank	64
LCS	116

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245064
Reported: 06/03/11 at 01:58 PM

Surrogate Quality Control

LCSD	116	
Limits:	63-135	

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111250013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6275770	96	92
Blank	94	88
LCS	94	97
LCSD	103	91
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111250016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6275761	93	77
6275762	92	93
6275763	93	92
6275765	92	90
6275766	88	92
6275767	85	89
6275768	86	87
6275769	82	88
6275771	134	118
Blank	103	97
LCS	102	99
LCSD	90	94
MS	92	93
MSD	93	92
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111300004A

	2-Nitro-m-xylene
6275767	119
6275768	112
6275769	127
Blank	123
LCS	149*
LCSD	108
MS	168*
MSD	152*
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111440006A

	Butyraldehyde
6275767	58*
6275768	57*

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Surrogate Quality Control

6275769	51*
Blank	85
LCS	81
MS	87
MSD	77
Limits:	64-126

Analysis Name: 21b Glycols by 8015B
Batch number: 111240028A

	Tetramethylene glycol
6275770	88
Blank	84
LCS	106
MS	104
MSD	102
Limits:	77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111240029A

	Tetramethylene glycol
6275761	60
6275762	71
6275763	67
6275765	59
6275767	65
6275768	61
6275769	58
6275771	59
Blank	123
LCS	129
MS	71
MSD	67
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111240030A

	Chlorobenzene	Orthoterphenyl
6275767	75	90
6275768	70	85
6275769	69	85
Blank	80	96
LCS	82	100
MS	79	97
MSD	77	95
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111250027A

	Acetone

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Quality Control Summary

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Reported: 06/03/11 at 01:58 PM

Surrogate Quality Control

6275767	88
6275768	85
6275769	79
Blank	104
LCS	103
MS	89
MSD	91
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111270006A

	n-Triacontane-d62
6275767	77
6275768	79
6275769	76
Blank	84
LCS	81
MS	77
MSD	78
Limits:	50-150

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acct# 13013 Cp# 1245064 Sample# 6275761-72

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Cyanide EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diuron/Fluoride EPA 9056	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	**TRH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Elmagnetics EPA 8330A	**Organics EPA 8012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA8N-SB-4.5MS	05.03.11	1030	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-015-SA8N-SB-4.0-5.0MS	05.03.11	1040	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-016-SA8N-SB-4.5	05.03.11	1140	SOIL	NONE	4-Encores										X	X											
SL-016-SA8N-SB-4.0-5.0	05.03.11	1144	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-018-SA8N-SB-4.5	05.03.11	1358	SOIL	NONE	4-Encores										X	X											
SL-018-SA8N-SB-4.0-5.0	05.03.11	1403	SOIL	NONE	2-Jars	X	X	X	X	X	X	X	X														
SL-019-SA8N-SB-4.5	05.03.11	1540	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA8N-SB-4.0-5.0	05.03.11	1544	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-4.5	05.03.11	0932	SOIL	NONE											X	X	X										
SL-020-SA8N-SB-4.0-5.0	05.03.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-9.5	05.03.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-020-SA8N-SB-9.0-10.0	05.03.11	0939	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	5-1 L Ambers			X	X	X																	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HCL	8-40mL Vials										X	X											
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	2-40mL Vials																				X		
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	1-500mL Plastic		X				X	X	X														
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HNO3	1-500mL Plastic	X																					
DUP07-SA8N-SB-050311	05.03.11	0950	SOIL	NONE	4-Encores										X	X											
DUP07-SA8N-SB-050311	05.03.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-050311	05.03.11	0800	SOIL	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/03/2011 1700	SMAI 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8695 1442 0821, 0832, 0843	

Nicole Maljovec A#13013 G# 1245004 S# G2757G1-72

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, May 06, 2011 5:57 PM
To: Nicole Maljovec
Subject: RE: 5/3 Samples: depth discrepancy and QC on dup?

Nicole

Please do change the COC to match the jar depths for SL-016 (3.0-4.0 and 3.5) and correct the DUP name to read DUP07-SA8N-QC-050311. SB shouldnt be in the name for the dup! Sorry for the errors.

Thanks!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, May 06, 2011 2:56 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 5/3 Samples: depth discrepancy and QC on dup?

Hi Peggy and Pam,
I have two easy questions for you today.

1. Sample SL-016-SA8N-SB-4.0-5.0 and SL-016-SA8N-SB-4.5 were labeled 3.0-4.0 and 3.5, respectively, on the labels. Do you want the COC and entry switched?

2. DUP07-SA8N-SB-050311 is missing the -QC. Should I add it in so it reads DUP07-SA8N-SB-QC-050311?

Thanks!
Nicole

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments.

Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com<http://www.lancasterlabs.com>

acct# 13013 Cp# 1245064 Samp6# 6275761-72

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Fuels EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs-EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TRH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	*Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-015-SA8N-SB-4.5MS	05.03.11	1030	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-015-SA8N-SB-4.0-5.0MS	05.03.11	1040	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
~~SL-016-SA8N-SB-4.5~~ *	05.03.11	1140	SOIL	NONE	4-Encores										X	X											
~~SL-016-SA8N-SB-4.0-5.0~~ *	05.03.11	1144	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-016-SA8N-SB-4.5	05.03.11	1358	SOIL	NONE	4-Encores										X	X											
SL-016-SA8N-SB-4.0-5.0	05.03.11	1403	SOIL	NONE	2-Jars	X	X	X	X	X	X	X	X														
SL-019-SA8N-SB-4.5	05.03.11	1540	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA8N-SB-4.0-5.0	05.03.11	1544	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-4.5	05.03.11	0932	SOIL	NONE											X	X	X										
SL-020-SA8N-SB-4.0-5.0	05.03.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-6.5	05.03.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-020-SA8N-SB-6.0-10.0	05.03.11	0939	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	5-1 L Ambers			X	X	X																	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HCL	8-40mL Vials										X	X											
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	2-40mL Vials																				X		
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	1-500mL Plastic		X				X	X	X														
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HNO3	1-500mL Plastic	X																					
~~DUP07-SA8N-SB-050311~~ *	05.03.11	0950	SOIL	NONE	4-Encores										X	X											
~~DUP07-SA8N-SB-050311~~ *	05.03.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-050311	05.03.11	0800	SOIL	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/03/2011 1700	[signature] 5/4/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0821, 0832, 0843	

The above starred samples were updated to the follow per PH. NH 5/11/11

SL-016-SA8N-SB-3.5

SL-016-SA8N-SB-3.0-4.0

DUP07-SA8N-QC-050311

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/04/2011
Group Number: 1245065
SDG: DX079
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA8N-SB-4.0-5.0 Soil	6275773
SL-015-SA8N-SB-4.0-5.0MS Soil	6275774
SL-015-SA8N-SB-4.0-5.0MSD Soil	6275775
SL-016-SA8N-SB-3.0-4.0 Soil	6275776
SL-018-SA8N-SB-4.0-5.0 Soil	6275777
SL-019-SA8N-SB-4.0-5.0 Soil	6275778
SL-020-SA8N-SB-4.0-5.0 Soil	6275779
SL-020-SA8N-SB-9.0-10.0 Soil	6275780
EB08-SA8N-SB-050311 Water	6275781
DUP07-SA8N-QC-050311 Soil	6275782

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275773
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275773
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.316	JBQ	0.0421	5.84	1
11031	1234678-HpCDF	67562-39-4	0.471	JB	0.0347	5.84	1
11031	1234789-HpCDF	55673-89-7	0.129	JB	0.0463	5.84	1
11031	123478-HxCDD	39227-28-6	0.0317	U	0.0317	5.84	1
11031	123478-HxCDF	70648-26-9	0.106	JB	0.0383	5.84	1
11031	123678-HxCDD	57653-85-7	0.0360	JB	0.0339	5.84	1
11031	123678-HxCDF	57117-44-9	0.0846	JB	0.0322	5.84	1
11031	123789-HxCDD	19408-74-3	0.0622	JQ	0.0321	5.84	1
11031	123789-HxCDF	72918-21-9	0.0264	U	0.0264	5.84	1
11031	12378-PeCDD	40321-76-4	0.0256	U	0.0256	5.84	1
11031	12378-PeCDF	57117-41-6	0.0225	JBQ	0.0171	5.84	1
11031	234678-HxCDF	60851-34-5	0.266	JB	0.0232	5.84	1
11031	23478-PeCDF	57117-31-4	0.129	JB	0.0175	5.84	1
11031	2378-TCDD	1746-01-6	0.0281	U	0.0281	1.17	1
11031	2378-TCDF	51207-31-9	0.0236	U	0.0236	1.17	1
11031	OCDD	3268-87-9	0.950	JB	0.0447	11.7	1
11031	OCDF	39001-02-0	0.548	JB	0.0482	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275773
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0

LLI Sample # SW 6275773
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 04:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MS

LLI Sample # SW 6275774
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MS

LLI Sample # SW 6275774
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	109	B	0.109	5.82	1
11031	1234678-HpCDF	67562-39-4	107	B	0.191	5.82	1
11031	1234789-HpCDF	55673-89-7	109	B	0.149	5.82	1
11031	123478-HxCDD	39227-28-6	110	B	0.0800	5.82	1
11031	123478-HxCDF	70648-26-9	117	B	0.455	5.82	1
11031	123678-HxCDD	57653-85-7	111	B	0.0834	5.82	1
11031	123678-HxCDF	57117-44-9	114	B	0.360	5.82	1
11031	123789-HxCDD	19408-74-3	110		0.0746	5.82	1
11031	123789-HxCDF	72918-21-9	110	B	0.157	5.82	1
11031	12378-PeCDD	40321-76-4	110		0.0460	5.82	1
11031	12378-PeCDF	57117-41-6	114	B	0.0470	5.82	1
11031	234678-HxCDF	60851-34-5	118	B	0.135	5.82	1
11031	23478-PeCDF	57117-31-4	113	B	0.0481	5.82	1
11031	2378-TCDD	1746-01-6	21.2		0.108	1.16	1
11031	2378-TCDF	51207-31-9	24.6		0.0845	1.16	1
11031	OCDD	3268-87-9	220	B	0.0855	11.6	1
11031	OCDF	39001-02-0	229	B	0.101	11.6	1

The recovery for 13C12-123478-HxCDF was outside QC limits in this sample. However, the recovery of the associated native compound was within specifications, therefore, no further action was taken.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	22	26 - 152
13C12-123678-HxCDF	26	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MS

LLI Sample # SW 6275774
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MS

LLI Sample # SW 6275774
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 05:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MSD

LLI Sample # SW 6275775
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MSD

LLI Sample # SW 6275775
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	109	B	0.139	5.85	1
11031	1234678-HpCDF	67562-39-4	110	B	0.142	5.85	1
11031	1234789-HpCDF	55673-89-7	109	B	0.181	5.85	1
11031	123478-HxCDD	39227-28-6	112	B	0.0789	5.85	1
11031	123478-HxCDF	70648-26-9	114	B	0.261	5.85	1
11031	123678-HxCDD	57653-85-7	111	B	0.0831	5.85	1
11031	123678-HxCDF	57117-44-9	112	B	0.208	5.85	1
11031	123789-HxCDD	19408-74-3	110		0.0732	5.85	1
11031	123789-HxCDF	72918-21-9	110	B	0.169	5.85	1
11031	12378-PeCDD	40321-76-4	110		0.103	5.85	1
11031	12378-PeCDF	57117-41-6	115	B	0.0605	5.85	1
11031	234678-HxCDF	60851-34-5	115	B	0.180	5.85	1
11031	23478-PeCDF	57117-31-4	114	B	0.0739	5.85	1
11031	2378-TCDD	1746-01-6	21.8		0.128	1.17	1
11031	2378-TCDF	51207-31-9	24.3		0.143	1.17	1
11031	OCDD	3268-87-9	223	B	0.141	11.7	1
11031	OCDF	39001-02-0	227	B	0.162	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	44	25 - 164
13C12-12378-PeCDD	46	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	41	28 - 130
13C12-123789-HxCDD	44	28 - 130
13C12-1234678-HpCDD	40	23 - 140
13C12-OCDD	36	17 - 157
13C12-2378-TCDF	37	24 - 169
13C12-12378-PeCDF	49	24 - 185
13C12-23478-PeCDF	38	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	37	28 - 136
13C12-123789-HxCDF	43	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	37	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	46	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8N-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MSD

LLI Sample # SW 6275775
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SB-4.0-5.0MSD

LLI Sample # SW 6275775
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 10:40

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7901 SDG#: DX079-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 06:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275776
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7902 SDG#: DX079-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275776
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7902 SDG#: DX079-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.417	JBQ	0.0283	5.62	1
11031	1234678-HpCDF	67562-39-4	0.541	JB	0.0221	5.62	1
11031	1234789-HpCDF	55673-89-7	0.122	JB	0.0318	5.62	1
11031	123478-HxCDD	39227-28-6	0.0537	JBQ	0.0264	5.62	1
11031	123478-HxCDF	70648-26-9	0.115	JB	0.0341	5.62	1
11031	123678-HxCDD	57653-85-7	0.123	JB	0.0273	5.62	1
11031	123678-HxCDF	57117-44-9	0.0828	JBQ	0.0267	5.62	1
11031	123789-HxCDD	19408-74-3	0.167	JQ	0.0253	5.62	1
11031	123789-HxCDF	72918-21-9	0.126	JB	0.0275	5.62	1
11031	12378-PeCDD	40321-76-4	0.0649	JQ	0.0266	5.62	1
11031	12378-PeCDF	57117-41-6	0.0735	JB	0.0211	5.62	1
11031	234678-HxCDF	60851-34-5	0.286	JB	0.0233	5.62	1
11031	23478-PeCDF	57117-31-4	0.129	JB	0.0209	5.62	1
11031	2378-TCDD	1746-01-6	0.0290	U	0.0290	1.12	1
11031	2378-TCDF	51207-31-9	0.0350	U	0.0350	1.12	1
11031	OCDD	3268-87-9	1.58	JB	0.0534	11.2	1
11031	OCDF	39001-02-0	0.633	JB	0.0401	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275776
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7902 SDG#: DX079-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SB-3.0-4.0

LLI Sample # SW 6275776
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 11:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7902 SDG#: DX079-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 07:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275777
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7903 SDG#: DX079-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275777
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7903 SDG#: DX079-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.359	JB	0.0321	5.60	1
11031	1234678-HpCDF	67562-39-4	0.638	JB	0.0306	5.60	1
11031	1234789-HpCDF	55673-89-7	0.108	JB	0.0522	5.60	1
11031	123478-HxCDD	39227-28-6	0.0282	JBQ	0.0266	5.60	1
11031	123478-HxCDF	70648-26-9	0.136	JBQ	0.0285	5.60	1
11031	123678-HxCDD	57653-85-7	0.0365	JBQ	0.0272	5.60	1
11031	123678-HxCDF	57117-44-9	0.107	JBQ	0.0235	5.60	1
11031	123789-HxCDD	19408-74-3	0.0775	JQ	0.0261	5.60	1
11031	123789-HxCDF	72918-21-9	0.153	JB	0.0336	5.60	1
11031	12378-PeCDD	40321-76-4	0.0338	JQ	0.0284	5.60	1
11031	12378-PeCDF	57117-41-6	0.0598	JBQ	0.0204	5.60	1
11031	234678-HxCDF	60851-34-5	0.254	JB	0.0260	5.60	1
11031	23478-PeCDF	57117-31-4	0.138	JBQ	0.0199	5.60	1
11031	2378-TCDD	1746-01-6	0.0322	U	0.0322	1.12	1
11031	2378-TCDF	51207-31-9	0.0286	U	0.0286	1.12	1
11031	OCDD	3268-87-9	1.05	JB	0.0444	11.2	1
11031	OCDF	39001-02-0	0.465	JB	0.0507	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275777
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7903 SDG#: DX079-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SB-4.0-5.0

LLI Sample # SW 6275777
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 14:03

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7903 SDG#: DX079-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 08:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275778
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7904 SDG#: DX079-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275778
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7904 SDG#: DX079-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.406	JB	0.0349	5.73	1
11031	1234678-HpCDF	67562-39-4	0.709	JB	0.0247	5.73	1
11031	1234789-HpCDF	55673-89-7	0.133	JB	0.0371	5.73	1
11031	123478-HxCDD	39227-28-6	0.0597	JB	0.0274	5.73	1
11031	123478-HxCDF	70648-26-9	0.168	JBQ	0.0298	5.73	1
11031	123678-HxCDD	57653-85-7	0.170	JB	0.0304	5.73	1
11031	123678-HxCDF	57117-44-9	0.132	JB	0.0264	5.73	1
11031	123789-HxCDD	19408-74-3	0.169	J	0.0282	5.73	1
11031	123789-HxCDF	72918-21-9	0.283	JB	0.0307	5.73	1
11031	12378-PeCDD	40321-76-4	0.0315	U	0.0315	5.73	1
11031	12378-PeCDF	57117-41-6	0.103	JB	0.0186	5.73	1
11031	234678-HxCDF	60851-34-5	0.296	JB	0.0274	5.73	1
11031	23478-PeCDF	57117-31-4	0.142	JB	0.0201	5.73	1
11031	2378-TCDD	1746-01-6	0.0316	U	0.0316	1.15	1
11031	2378-TCDF	51207-31-9	0.0285	U	0.0285	1.15	1
11031	OCDD	3268-87-9	0.916	JB	0.0719	11.5	1
11031	OCDF	39001-02-0	0.597	JB	0.0516	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275778
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7904 SDG#: DX079-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SB-4.0-5.0

LLI Sample # SW 6275778
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 15:44

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7904 SDG#: DX079-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 09:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275779
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7905 SDG#: DX079-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275779
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7905 SDG#: DX079-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.550	JB	0.0352	5.85	1
11031	1234678-HpCDF	67562-39-4	0.682	JB	0.0234	5.85	1
11031	1234789-HpCDF	55673-89-7	0.120	JB	0.0317	5.85	1
11031	123478-HxCDD	39227-28-6	0.103	JB	0.0319	5.85	1
11031	123478-HxCDF	70648-26-9	0.212	JB	0.0369	5.85	1
11031	123678-HxCDD	57653-85-7	0.178	JB	0.0329	5.85	1
11031	123678-HxCDF	57117-44-9	0.142	JB	0.0307	5.85	1
11031	123789-HxCDD	19408-74-3	0.248	JQ	0.0295	5.85	1
11031	123789-HxCDF	72918-21-9	0.293	JB	0.0281	5.85	1
11031	12378-PeCDD	40321-76-4	0.215	JQ	0.0348	5.85	1
11031	12378-PeCDF	57117-41-6	0.341	JB	0.0207	5.85	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0240	5.85	1
11031	23478-PeCDF	57117-31-4	0.285	JB	0.0200	5.85	1
11031	2378-TCDD	1746-01-6	0.111	JQ	0.0337	1.17	1
11031	2378-TCDF	51207-31-9	0.0297	U	0.0297	1.17	1
11031	OCDD	3268-87-9	3.82	JB	0.0774	11.7	1
11031	OCDF	39001-02-0	0.727	JB	0.0471	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275779
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7905 SDG#: DX079-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-4.0-5.0

LLI Sample # SW 6275779
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:35

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7905 SDG#: DX079-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 10:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275780
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7906 SDG#: DX079-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275780
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7906 SDG#: DX079-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	1.05	JB	0.0579	6.09	1
11031	1234678-HpCDF	67562-39-4	0.918	JB	0.0265	6.09	1
11031	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0417	6.09	1
11031	123478-HxCDD	39227-28-6	0.101	JB	0.0250	6.09	1
11031	123478-HxCDF	70648-26-9	0.306	JB	0.0331	6.09	1
11031	123678-HxCDD	57653-85-7	0.106	JBQ	0.0270	6.09	1
11031	123678-HxCDF	57117-44-9	0.244	JB	0.0290	6.09	1
11031	123789-HxCDD	19408-74-3	0.105	J	0.0254	6.09	1
11031	123789-HxCDF	72918-21-9	0.193	JB	0.0333	6.09	1
11031	12378-PeCDD	40321-76-4	0.244	J	0.0335	6.09	1
11031	12378-PeCDF	57117-41-6	0.484	JB	0.0207	6.09	1
11031	234678-HxCDF	60851-34-5	0.355	JBQ	0.0307	6.09	1
11031	23478-PeCDF	57117-31-4	0.343	JB	0.0210	6.09	1
11031	2378-TCDD	1746-01-6	0.118	J	0.0298	1.22	1
11031	2378-TCDF	51207-31-9	0.124	JQ	0.0341	1.22	1
11031	OCDD	3268-87-9	5.88	JB	0.0683	12.2	1
11031	OCDF	39001-02-0	1.09	JBQ	0.0509	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275780
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7906 SDG#: DX079-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SB-9.0-10.0

LLI Sample # SW 6275780
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:39

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7906 SDG#: DX079-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 10:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB08-SA8N-SB-050311 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275781
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7907 SDG#: DX079-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	1.72	JBQ	0.192	10.4	1
10915	1234678-HpCDF	67562-39-4	1.32	JBQ	0.102	10.4	1
10915	1234789-HpCDF	55673-89-7	0.318	JBQ	0.106	10.4	1
10915	123478-HxCDD	39227-28-6	0.127	U	0.127	10.4	1
10915	123478-HxCDF	70648-26-9	0.204	JBQ	0.107	10.4	1
10915	123678-HxCDD	57653-85-7	0.131	U	0.131	10.4	1
10915	123678-HxCDF	57117-44-9	0.256	JBQ	0.106	10.4	1
10915	123789-HxCDD	19408-74-3	0.131	U	0.131	10.4	1
10915	123789-HxCDF	72918-21-9	0.209	JB	0.0841	10.4	1
10915	12378-PeCDD	40321-76-4	0.177	U	0.177	10.4	1
10915	12378-PeCDF	57117-41-6	0.116	JBQ	0.0838	10.4	1
10915	234678-HxCDF	60851-34-5	0.655	JB	0.0842	10.4	1
10915	23478-PeCDF	57117-31-4	0.441	JB	0.0765	10.4	1
10915	2378-TCDD	1746-01-6	0.199	JBQ	0.154	2.07	1
10915	2378-TCDF	51207-31-9	0.142	U	0.142	2.07	1
10915	OCDD	3268-87-9	3.89	JB	0.267	20.7	1
10915	OCDF	39001-02-0	1.31	JB	0.256	20.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB08-SA8N-SB-050311 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA8N-SB-050311

LLI Sample # WW 6275781
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 12:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7907 SDG#: DX079-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11132002	05/17/2011 07:22	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11132002	05/13/2011 05:40	Ginelle L Haines	1

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Analysis Report

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275782
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7908 SDG#: DX079-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275782
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7908 SDG#: DX079-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.435	JB	0.0291	5.78	1
11031	1234678-HpCDF	67562-39-4	0.830	JB	0.0258	5.78	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0385	5.78	1
11031	123478-HxCDD	39227-28-6	0.0955	JB	0.0270	5.78	1
11031	123478-HxCDF	70648-26-9	0.290	JB	0.0365	5.78	1
11031	123678-HxCDD	57653-85-7	0.107	JB	0.0278	5.78	1
11031	123678-HxCDF	57117-44-9	0.214	JB	0.0323	5.78	1
11031	123789-HxCDD	19408-74-3	0.118	JQ	0.0267	5.78	1
11031	123789-HxCDF	72918-21-9	0.190	JBQ	0.0386	5.78	1
11031	12378-PeCDD	40321-76-4	0.164	JQ	0.0305	5.78	1
11031	12378-PeCDF	57117-41-6	0.358	JB	0.0231	5.78	1
11031	234678-HxCDF	60851-34-5	0.352	JBQ	0.0338	5.78	1
11031	23478-PeCDF	57117-31-4	0.261	JB	0.0218	5.78	1
11031	2378-TCDD	1746-01-6	0.119	JQ	0.0351	1.16	1
11031	2378-TCDF	51207-31-9	0.111	J	0.0309	1.16	1
11031	OCDD	3268-87-9	0.822	JBQ	0.0452	11.6	1
11031	OCDF	39001-02-0	0.527	JB	0.0425	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	51	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	57	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275782
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7908 SDG#: DX079-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA8N-QC-050311 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA8N-QC-050311

LLI Sample # SW 6275782
LLI Group # 1245065
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/03/2011 09:50

Submitted: 05/04/2011 09:40
Reported: 06/01/2011 12:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7908 SDG#: DX079-08FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 11:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245065
Reported: 06/01/11 at 12:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11133162402A	Sample number(s): 6275773-6275777,6275782								
Moisture Content by 160.3					100		80-120		
Batch number: 11145162401B	Sample number(s): 6275778-6275780								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11130001	Sample number(s): 6275773-6275780,6275782								
2378-TCDD	0.0281 U	0.0281	1.00	ng/kg	89		67-158		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	97		75-158		
12378-PeCDD	0.0266 U	0.0266	5.00	ng/kg	93		70-142		
12378-PeCDF	0.0464 J	0.0168	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0806 J	0.0170	5.00	ng/kg	90		68-160		
123478-HxCDD	0.0476 J	0.0247	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0438 J	0.0263	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0248 U	0.0248	5.00	ng/kg	90		64-162		
123478-HxCDF	0.0433 J	0.0238	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0492 J	0.0204	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0800 J	0.0211	5.00	ng/kg	89		78-130		
234678-HxCDF	0.112 J	0.0182	5.00	ng/kg	93		70-156		
1234678-HpCDD	0.222 J	0.0426	5.00	ng/kg	88		70-140		
1234678-HpCDF	0.188 J	0.0202	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0898 J	0.0333	5.00	ng/kg	88		78-138		
OCDD	0.374 J	0.0430	10.0	ng/kg	91		78-144		
OCDF	0.189 J	0.0454	10.0	ng/kg	90		63-170		
Batch number: 11132002	Sample number(s): 6275781								
2378-TCDD	0.201 J	0.159	2.00	pg/l	93		67-158		
2378-TCDF	0.120 U	0.120	2.00	pg/l	104		75-158		
12378-PeCDD	0.300 J	0.179	10.0	pg/l	96		70-142		
12378-PeCDF	0.245 J	0.0965	10.0	pg/l	100		80-134		
23478-PeCDF	0.823 J	0.0893	10.0	pg/l	100		68-160		
123478-HxCDD	0.652 J	0.200	10.0	pg/l	97		70-164		
123678-HxCDD	0.852 J	0.222	10.0	pg/l	100		76-134		
123789-HxCDD	0.677 J	0.191	10.0	pg/l	99		64-162		
123478-HxCDF	1.00 J	0.223	10.0	pg/l	104		72-134		
123678-HxCDF	0.718 J	0.222	10.0	pg/l	104		84-130		
123789-HxCDF	0.893 J	0.141	10.0	pg/l	99		78-130		
234678-HxCDF	0.851 J	0.129	10.0	pg/l	103		70-156		
1234678-HpCDD	2.47 J	0.351	10.0	pg/l	100		70-140		
1234678-HpCDF	2.20 J	0.216	10.0	pg/l	105		82-122		
1234789-HpCDF	1.13 J	0.178	10.0	pg/l	103		78-138		
OCDD	3.93 J	0.308	20.0	pg/l	107		78-144		
OCDF	2.97 J	0.342	20.0	pg/l	110		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245065
Reported: 06/01/11 at 12:40 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162402A	Sample number(s): 6275773-6275777,6275782 BKG: P275761								
Moisture Content by 160.3						14.7	13.0	13	20
Batch number: 11145162401B	Sample number(s): 6275778-6275780 BKG: P275767								
Moisture Content by 160.3						13.4	13.3	1	20
Batch number: 11130001	Sample number(s): 6275773-6275780,6275782 UNSPK: 6275773								
2378-TCDD	91	93	67-158	3	25				
2378-TCDF	106	104	75-158	1	25				
12378-PeCDD	95	94	70-142	0	25				
12378-PeCDF	98	98	80-134	1	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDD	94	96	70-164	2	25				
123678-HxCDD	95	95	76-134	0	25				
123789-HxCDD	94	94	64-162	0	25				
123478-HxCDF	101	97	72-134	3	25				
123678-HxCDF	98	96	84-130	1	25				
123789-HxCDF	95	94	78-130	0	25				
234678-HxCDF	101	98	70-156	3	25				
1234678-HpCDD	93	93	70-140	0	25				
1234678-HpCDF	91	94	82-122	3	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDD	94	95	78-144	2	25				
OCDF	98	97	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11130001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6275773	63	66	41	48	66	64
6275774	64	70	22*	26	71	68
6275775	44	38	26	32	37	43
6275776	67	71	50	60	72	66
6275777	59	62	59	66	61	55
6275778	64	63	64	70	65	66
6275779	73	77	55	64	80	76
6275780	70	77	77	84	80	79
6275782	51	57	55	59	58	57
Blank	62	63	51	57	63	60

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245065
Reported: 06/01/11 at 12:40 PM

Surrogate Quality Control

MS	64	70	22	26	71	68
MSD	44	38	26	32	37	43
OPR	47	43	28	32	41	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6275773	64	56	47	68	70	68
6275774	43	64	55	72	75	68
6275775	40	37	32	46	46	41
6275776	76	61	51	72	74	71
6275777	75	50	41	66	66	62
6275778	77	58	49	68	71	70
6275779	80	71	61	81	83	76
6275780	94	69	60	75	80	82
6275782	66	50	43	57	59	59
Blank	73	51	44	77	68	68
MS	43	64	55	72	75	68
MSD	40	37	32	46	46	41
OPR	43	39	31	50	52	48
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6275773	68	69	68	64	60	72
6275774	67	74	73	69	61	76
6275775	41	44	40	36	37	49
6275776	71	73	71	68	63	75
6275777	62	63	60	59	56	66
6275778	69	71	66	61	58	71
6275779	78	82	81	79	70	83
6275780	81	82	78	75	67	80
6275782	58	59	57	54	49	58
Blank	68	68	67	63	58	66
MS	67	74	73	69	61	76
MSD	41	44	40	36	37	49
OPR	48	51	49	43	41	51
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11132002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6275781	77	81	65	64	81	88
Blank	67	68	42	42	72	74
OPR	72	75	67	67	76	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6275781	66	70	63	76	79	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245065
Reported: 06/01/11 at 12:40 PM

Surrogate Quality Control

Blank	42	59	52	74	66	61
OPR	64	67	60	73	73	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6275781	75	73	66	60	77	79
Blank	58	64	56	50	69	67
OPR	66	70	63	57	73	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1245065 Samp6# 6275773-82

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196F	*pH EPA 9040C/9045D	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Bisphenol EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA8N-SB-4.5MS	05.03.11	1030	SOIL	NONE	12-Encores										X	X											
SL-015-SA8N-SB-4.0-5.0MS	05.03.11	1040	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-018-SA8N-SB-4.5	05.03.11	1140	SOIL	NONE	4-Encores										X	X											MS/MSD
SL-018-SA8N-SB-4.0-5.0	05.03.11	1144	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-018-SA8N-SB-4.5	05.03.11	1358	SOIL	NONE	4-Encores										X	X											
SL-018-SA8N-SB-4.0-5.0	05.03.11	1403	SOIL	NONE	2-Jars	X	X	X	X	X	X	X	X														
SL-019-SA8N-SB-4.5	05.03.11	1540	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA8N-SB-4.0-5.0	05.03.11	1544	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-4.5	05.03.11	0932	SOIL	NONE											X	X	X										
SL-020-SA8N-SB-4.0-5.0	05.03.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SB-9.5	05.03.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-020-SA8N-SB-9.0-10.0	05.03.11	0939	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	5-1 L Ambers			X	X	X																	
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HCL	6-40mL Vials										X	X											
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	2-40mL Vials																				X		
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	1-500mL Plastic		X				X	X	X														
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HNO3	1-500mL Plastic	X																					
DUP07-SA8N-SB-050311	05.03.11	0950	SOIL	NONE	4-Encores										X	X											
DUP07-SA8N-SB-050311	05.03.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-050311	05.03.11	0800	SOIL	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/03/2011 1700	5/4/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8695 1442 0821, 0832, 0843	

Nicole Maljovec A#13013 G#1245065 S#6275773-82

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, May 06, 2011 5:57 PM
To: Nicole Maljovec
Subject: RE: 5/3 Samples: depth discrepancy and QC on dup?

Nicole

Please do change the COC to match the jar depths for SL-016 (3.0-4.0 and 3.5) and correct the DUP name to read DUP07-SA8N-QC-050311. SB shouldnt be in the name for the dup! Sorry for the errors.

Thanks!!

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, May 06, 2011 2:56 PM
To: Bloisa, Peggy; Hartman, Pamela
Subject: 5/3 Samples: depth discrepancy and QC on dup?

Hi Peggy and Pam,
I have two easy questions for you today.

1. Sample SL-016-SA8N-SB-4.0-5.0 and SL-016-SA8N-SB-4.5 were labeled 3.0-4.0 and 3.5, respectively, on the labels. Do you want the COC and entry switched?

2. DUP07-SA8N-SB-050311 is missing the -QC. Should I add it in so it reads DUP07-SA8N-SB-QC-050311?

Thanks!
Nicole

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments.

Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com<http://www.lancasterlabs.com>

acct# 13013 Gp# 1245065 Sample# 6275773-82

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000A/7471A	*Pesticide EPA 3550.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196F	pH EPA 9040C/9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-ERH EPA 8015B Mod.	**Metals EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Biologics EPA 8550A	**Glycols EPA 8015B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
SL-015-SA8N-SB-4.5MS	05.03.11	1030	SOIL	NONE	12-Encores										X	X										
SL-015-SA8N-SB-4.0-5.0MS	05.03.11	1040	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X											X		
~~SL-016-SA8N-SB-3.5~~ 3.5	05.03.11	1140	SOIL	NONE	4-Encores										X	X										
~~SL-016-SA8N-SB-3.0-4.0~~ 3.0-4.0	05.03.11	1144	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X											X		
SL-018-SA8N-SB-4.5	05.03.11	1358	SOIL	NONE	4-Encores										X	X										
SL-018-SA8N-SB-4.0-5.0	05.03.11	1403	SOIL	NONE	2-Jars	X	X	X	X	X	X	X	X													
SL-019-SA8N-SB-4.5	05.03.11	1540	SOIL	NONE	5-Encores										X	X	X									
SL-019-SA8N-SB-4.0-5.0	05.03.11	1544	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-020-SA8N-SB-4.5	05.03.11	0932	SOIL	NONE											X	X	X									
SL-020-SA8N-SB-4.0-5.0	05.03.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-020-SA8N-SB-9.5	05.03.11	0945	SOIL	NONE	5-Encores										X	X	X									
SL-020-SA8N-SB-9.0-10.0	05.03.11	0939	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	5-1 L Ambers			X	X	X																
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HCL	6-40mL Vials										X	X										
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	2-40mL Vials																			X		
EB08-SA8N-SB-050311	05.03.11	1250	WATER	NONE	1-500mL Plastic		X				X	X	X													
EB08-SA8N-SB-050311	05.03.11	1250	WATER	HNO3	1-500mL Plastic	X																				
~~DUP07-SA8N-SB-050311~~	05.03.11	0950	SOIL	NONE	4-Encores										X	X										
~~DUP07-SA8N-SB-050311~~	05.03.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X											X		
TB-050311	05.03.11	0800	SOIL	NONE	4-40 mL vials										X	X	X									

Other Instructions and Notes: Amended COC

MS/MSD

MS/MSD

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/03/2011 1700	5/11/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8895 1442 0821, 0832, 0843	

The IDs starred above were updated to the following per PH. NM 5/11/11

SL-016-SA8N-SB-3.5

SL-016-SA8N-SB-3.0-4.0

DUP07-SA8N-QC-050311

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/05/2011
Group Number: 1245335
SDG: DE143
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA8N-SB-4.0-5.0 Soil	6277627
SL-021-SA8N-SB-9.0-10.0 Soil	6277628
SL-080-SA8N-SB-4.0-5.0 Soil	6277629
SL-067-SA8N-SB-4.0-5.0 Soil	6277630
TB-050411 Water	6277631

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Tracy A. Cole
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.89
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.89
06192	Methylene Chloride	75-09-2	7.7		0.25	4.2		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.1	J	19.2	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	180		2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.58	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	1.4	J	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	3.0		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.88	23.4		1
07914	Boron	7440-42-8	8.97		1.04	5.85		1

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Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	6,710		7.17	23.4		1
01654	Iron	7439-89-6	31,500		27.5	117		5
01656	Lithium	7439-93-2	24.2		0.26	2.3		1
01657	Magnesium	7439-95-4	6,980		2.97	11.7		1
06958	Manganese	7439-96-5	410		0.0912	0.585		1
10145	Phosphorus	7723-14-0	276		0.655	11.7		1
01662	Potassium	7440-09-7	3,860		21.1	58.5		1
01667	Sodium	7440-23-5	269		43.6	117		1
07968	Strontium	7440-24-6	30.6		0.0725	0.585		1
06969	Tin	7440-31-5	2.60	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,450		0.436	1.15		1
10146	Zirconium	7440-67-7	2.05	J	0.982	5.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0765	J	0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.25		0.0917	0.459		2
06126	Barium	7440-39-3	142		0.124	0.459		2
06127	Beryllium	7440-41-7	0.831		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.290		0.0459	0.115		2
06131	Chromium	7440-47-3	29.0		0.138	0.459		2
06132	Cobalt	7440-48-4	10.5		0.0229	0.115		2
06133	Copper	7440-50-8	94.0		0.378	2.29		10
06135	Lead	7439-92-1	9.49		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.291		0.0573	0.115		2
06139	Nickel	7440-02-0	20.7		0.115	0.459		2
06141	Selenium	7782-49-2	0.159	J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0358	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.314		0.0344	0.115		2
06148	Vanadium	7440-62-2	51.6		0.0252	0.115		2
06149	Zinc	7440-66-6	65.7		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	199		10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

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143-1 SDG#: DE143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	391		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 20:22	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 14:31	Jason M Long	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:09	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112524322	05/05/2011 19:07	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011 16:39	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/08/2011 00:34	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 02:27	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 15:19	Elizabeth J Marin	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:06	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 07:58	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 20:14	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 16:48	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 10:56	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 16:44	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 18:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 06:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	3	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/11/2011 17:43	John P Hook	5
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 11:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2

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Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277627
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-1 SDG#: DE143-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/13/2011 08:21	Choon Y Tian	10
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 11:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 11:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 11:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621202A	05/17/2011 21:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621202A	05/17/2011 21:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/11/2011 21:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 20:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:26	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621202A	05/16/2011 12:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.91
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.91
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.91
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.91
06192	Methylene Chloride	75-09-2	5.1		0.26	4.3		0.91
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.91

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.91
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.0		19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	19	J	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.0	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	1.8		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	3.5		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900		5.91	23.5		1
07914	Boron	7440-42-8	9.54		1.05	5.88		1
01650	Calcium	7440-70-2	51,800		7.20	23.5		1
01654	Iron	7439-89-6	28,300		5.53	23.5		1
01656	Lithium	7439-93-2	26.9		0.26	2.4		1
01657	Magnesium	7439-95-4	6,670		2.98	11.8		1

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	251		0.0917	0.588		1
10145	Phosphorus	7723-14-0	427		0.658	11.8		1
01662	Potassium	7440-09-7	2,590		21.2	58.8		1
01667	Sodium	7440-23-5	206		43.8	118		1
07968	Strontium	7440-24-6	46.4		0.0729	0.588		1
06969	Tin	7440-31-5	2.67	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,350		0.442	1.16		1
10146	Zirconium	7440-67-7	3.39	J	0.987	5.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0705	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.04		0.0940	0.470		2
06126	Barium	7440-39-3	152		0.127	0.470		2
06127	Beryllium	7440-41-7	1.03		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.474		0.0470	0.118		2
06131	Chromium	7440-47-3	39.5		0.141	0.470		2
06132	Cobalt	7440-48-4	13.3		0.0235	0.118		2
06133	Copper	7440-50-8	16.6		0.0776	0.470		2
06135	Lead	7439-92-1	10.9		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.263		0.0588	0.118		2
06139	Nickel	7440-02-0	25.9		0.118	0.470		2
06141	Selenium	7782-49-2	0.117	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0810	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.284		0.0353	0.118		2
06148	Vanadium	7440-62-2	84.4		0.0259	0.118		2
06149	Zinc	7440-66-6	81.1		0.658	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	57.4		10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	402	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.15	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 20:44	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 14:51	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112524322	05/05/2011 19:12	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011 16:56	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/08/2011 00:58	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 08:50	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 15:56	Elizabeth J Marin	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:11	Lois E Hiltz	n.a.

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Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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143-2 SDG#: DE143-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 08:40	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 20:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 17:44	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 12:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 17:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 18:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 07:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	3	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 11:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 11:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 11:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277628
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-2 SDG#: DE143-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 11:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621202A	05/17/2011 22:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621202A	05/17/2011 22:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/20/2011 17:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 20:31	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201A	05/12/2011 09:27	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621202A	05/16/2011 12:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201A	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	12		0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.44
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.1		19.1	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.65	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	8.2		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	37		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900		5.61	22.3		1
07914	Boron	7440-42-8	9.44		0.992	5.57		1
01650	Calcium	7440-70-2	5,750		6.83	22.3		1
01654	Iron	7439-89-6	26,800		5.25	22.3		1
01656	Lithium	7439-93-2	21.3		0.25	2.2		1
01657	Magnesium	7439-95-4	5,310		2.83	11.1		1

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	406		0.0869	0.557		1
10145	Phosphorus	7723-14-0	276		0.624	11.1		1
01662	Potassium	7440-09-7	4,060		20.1	55.7		1
01667	Sodium	7440-23-5	138		41.6	111		1
07968	Strontium	7440-24-6	22.6		0.0691	0.557		1
06969	Tin	7440-31-5	2.41	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,300		0.420	1.10		1
10146	Zirconium	7440-67-7	2.28	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0909	0.455		2
06126	Barium	7440-39-3	149		0.123	0.455		2
06127	Beryllium	7440-41-7	1.01		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.404		0.0455	0.114		2
06131	Chromium	7440-47-3	32.0		0.136	0.455		2
06132	Cobalt	7440-48-4	12.9		0.0227	0.114		2
06133	Copper	7440-50-8	19.6		0.0750	0.455		2
06135	Lead	7439-92-1	10.6		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.665		0.0568	0.114		2
06139	Nickel	7440-02-0	23.6		0.114	0.455		2
06141	Selenium	7782-49-2	0.167	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0473	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.374		0.0341	0.114		2
06148	Vanadium	7440-62-2	61.8		0.0250	0.114		2
06149	Zinc	7440-66-6	74.0		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	21.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-3 SDG#: DE143-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	431	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.79	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-080-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 21:07	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 15:11	Jason M Long	21.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112524322	05/05/2011 19:16	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011 17:13	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/08/2011 01:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 09:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 16:32	Elizabeth J Marin	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:16	Lois E Hiltz	n.a.

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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143-3 SDG#: DE143-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 09:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 20:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 18:02	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 12:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 17:44	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 18:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 07:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	3	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2

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Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277629
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

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Chantilly VA 20151

143-3 SDG#: DE143-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621202A	05/17/2011 22:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621202A	05/17/2011 22:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/11/2011 22:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 20:50	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621202A	05/16/2011 12:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.89
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.89
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.89
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.89
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.89
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.89
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.89
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.89
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.89
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.89
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.89
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.89
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.89
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.89
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.89
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.89
06192	Methylene Chloride	75-09-2	8.4		0.26	4.3		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.89

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Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.89
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.89
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		22.6
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	70.6		20.0	40.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	97	U	97	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	97	U	97	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	970	U	970	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	97	U	97	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	97	U	97	140	10000000	1
10132	PETN	78-11-5	970	U	970	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	74	U	74	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

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143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	5.1		0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	3.8		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,100		6.07	24.2		1
07914	Boron	7440-42-8	11.8		1.07	6.04		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	14,700		7.40	24.2		1
01654	Iron	7439-89-6	32,100		5.69	24.2		1
01656	Lithium	7439-93-2	26.8		0.27	2.4		1
01657	Magnesium	7439-95-4	7,630		3.07	12.1		1
06958	Manganese	7439-96-5	347		0.0942	0.604		1
10145	Phosphorus	7723-14-0	482		0.676	12.1		1
01662	Potassium	7440-09-7	4,720		21.7	60.4		1
01667	Sodium	7440-23-5	127		45.0	121		1
07968	Strontium	7440-24-6	40.2		0.0749	0.604		1
06969	Tin	7440-31-5	2.79	J	1.21	12.1		1
06970	Titanium	7440-32-6	1,450		0.459	1.21		1
10146	Zirconium	7440-67-7	3.21	J	1.01	6.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0920	0.460		2
06126	Barium	7440-39-3	166		0.124	0.460		2
06127	Beryllium	7440-41-7	0.977		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.294		0.0460	0.115		2
06131	Chromium	7440-47-3	35.5		0.138	0.460		2
06132	Cobalt	7440-48-4	14.3		0.0230	0.115		2
06133	Copper	7440-50-8	20.2		0.0759	0.460		2
06135	Lead	7439-92-1	11.0		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.360		0.0575	0.115		2
06139	Nickel	7440-02-0	26.4		0.115	0.460		2
06141	Selenium	7782-49-2	0.183	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0517	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.398		0.0345	0.115		2
06148	Vanadium	7440-62-2	79.3		0.0253	0.115		2
06149	Zinc	7440-66-6	90.9		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.2		0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	443		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-067-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111261AA	05/06/2011 21:29	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 15:30	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:23	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112524322	05/05/2011 19:26	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112524322	05/05/2011 19:21	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11125SLF026	05/17/2011 17:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11125SLB026	05/08/2011 01:47	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11125SLC026	05/18/2011 09:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11125SLF026	05/06/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11125SLC026	05/06/2011 09:20	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11125SLB026	05/06/2011 09:20	Kelli M Barto	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 17:09	Elizabeth J Marin	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112524322	05/05/2011 19:20	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 10:05	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:01	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:37	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 18:21	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 13:00	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111250027A	05/06/2011 17:59	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 18:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 09:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111250027A	05/05/2011 16:40	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	3	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:10	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277630
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-4 SDG#: DE143-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 12:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11136621202A	05/17/2011 22:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11136621202A	05/17/2011 22:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/11/2011 23:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 21:02	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:34	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11136621202A	05/16/2011 12:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-050411 Water
SSFL Area IV Collocated Soil Sampling
TB-050411

LLI Sample # WW 6277631
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 08:00

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-5 SDG#: DE143-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-050411 Water
SSFL Area IV Collocated Soil Sampling
TB-050411

LLI Sample # WW 6277631
LLI Group # 1245335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 08:00

Submitted: 05/05/2011 09:35
Reported: 06/01/2011 10:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

143-5 SDG#: DE143-05TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 21:13	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111291AA	05/09/2011 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111262AA	05/06/2011 21:13	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111291AA	05/09/2011 12:28	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11131A20A	05/12/2011 18:04	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11131A20A	05/12/2011 18:04	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111261AA	Sample number(s): 6277627-6277630									
Acetone	6.7	U	6.7	8.0	ug/kg	131		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	107		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	106		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	95		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	91		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	80		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	112		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	116		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	121*		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	100		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	82		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	100		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	92		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	110		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	96		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	97		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	95		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	104		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	105		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	104		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	95		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	97		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	119		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	102		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	95		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	110		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	112		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	116		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	102		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	96		61-134		
Methylene Chloride	0.24	U	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	122*		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	96		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	108		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	112		77-120		
Toluene	0.09	J	0.08	4.0	ug/kg	106		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	99		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	115		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
Batch number: E111291AA	Sample number(s): 6277631									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	101	80-123	1	30
Batch number: E111301AA	Sample number(s): 6277627-6277630									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	113	70-130	2	30
Batch number: L111262AA	Sample number(s): 6277631									
Acetone	6	U	6.	20	ug/l	113	123	49-234	8	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	104	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	90	92	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	93	93	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	95	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	105	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	95	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	104	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	85	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	82	82	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	92	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	90	93	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	111	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	87	90	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	91	92	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	100	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	96	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	95	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	81	82	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	84	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Styrene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	87	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	99	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	98	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	102	102	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	111	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	92	93	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	91	92	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	88	92	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	0	30
Batch number: 11125SLB026	Sample number(s): 6277627-6277630									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	51		15-121		
Benzoic acid	170 U		170.	500	ug/kg	84		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	98		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	54		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	72		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	44		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	100		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	64		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	96		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	74		51-117		
Phenol	17	U	17.	170	ug/kg	99		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11125SLC026	Sample number(s): 6277627-6277630									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	102		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11125SLF026	Sample number(s): 6277627-6277630									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 11126A34A	Sample number(s): 6277627-6277630									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	74	67-119	1	30
Batch number: 11131A20A	Sample number(s): 6277631									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111300004A	Sample number(s): 6277627-6277630									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	100	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	104		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	105		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111300003A	Sample number(s): 6277627-6277630									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	106		80-126		
Batch number: 111300023A	Sample number(s): 6277627,6277630									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 111380029A	Sample number(s): 6277627-6277630									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	85	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111290020A	Sample number(s): 6277627-6277630									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	110		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	114		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		54-107		
Batch number: 111250027A	Sample number(s): 6277627-6277630									
Ethanol	100	U	100.	500	ug/kg	96		71-129		
Isopropanol	100	U	100.	500	ug/kg	96		75-125		
Methanol	100	U	100.	500	ug/kg	92		68-129		
Batch number: 111260011A	Sample number(s): 6277627-6277630									
Diethylene glycol	5.0	U	5.0	10	mg/kg	93		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	92		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	92		75-125		
Batch number: 111270006A	Sample number(s): 6277627-6277630									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111291026001A	Sample number(s): 6277627-6277630									
Antimony	0.0571	U	0.0571	0.190	mg/kg	64		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	94		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	99		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	100		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	105		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		82-118		
Copper	0.503		0.0629	0.381	mg/kg	102		83-110		
Lead	0.0099	U	0.0099	0.190	mg/kg	97		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	100		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	91		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	99		83-110		
Vanadium	0.0744	J	0.0210	0.0952	mg/kg	89		84-116		
Zinc	0.738	J	0.533	2.86	mg/kg	100		81-112		
Batch number: 111291026001B	Sample number(s): 6277627-6277630									
Selenium	0.0381	U	0.0381	0.381	mg/kg	96		83-111		
Batch number: 111291026001C	Sample number(s): 6277627-6277630									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	102		78-122		
Batch number: 111291026001D	Sample number(s): 6277627-6277630									
Barium	0.103	U	0.103	0.381	mg/kg	97		81-111		
Batch number: 111295708001	Sample number(s): 6277627-6277630									
Aluminum	12.4	J	4.98	19.8	mg/kg	90		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	90		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	17.6	J	6.07	19.8	mg/kg	98		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	87		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	98		80-120		
Magnesium	3.88	J	2.51	9.90	mg/kg	95		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	97		89-112		
Phosphorus	2.28	J	0.554	9.90	mg/kg	99		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	94		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	99		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	97		86-110		
Tin	1.46	J	0.990	9.90	mg/kg	93		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	99		80-120		
Batch number: 111295711001	Sample number(s): 6277627-6277629									
Mercury	0.0027	U	0.0027	0.0948	mg/kg	97		88-123		
Batch number: 111305711001	Sample number(s): 6277630									
Mercury	0.0028	U	0.0028	0.0992	mg/kg	96		88-123		
Batch number: 111375708002	Sample number(s): 6277627-6277630									
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Batch number: 11130621201A	Sample number(s): 6277627-6277630									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11131102201A	Sample number(s): 6277627-6277628									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11131102201B	Sample number(s): 6277629-6277630									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11136621202A	Sample number(s): 6277627-6277630									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11139243201A	Sample number(s): 6277627-6277630									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11136039401A	Sample number(s): 6277627-6277630									
18a pH by 9045C						100		95-105		
Batch number: 11136182101A	Sample number(s): 6277627-6277630									
32a OR Potential						99		98-102		
Batch number: 11145162401B	Sample number(s): 6277627-6277630									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111261AA	Sample number(s): 6277627-6277630 UNSPK: P275761								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acetone	159	143	15-210	1	30				
Benzene	117	111	55-143	4	30				
Bromobenzene	115	108	43-139	3	30				
Bromochloromethane	126	121	60-137	5	30				
Bromodichloromethane	100	96	53-136	5	30				
Bromoform	93	85	38-124	0	30				
Bromomethane	92	90	42-168	7	30				
2-Butanone	126	109	37-163	5	30				
n-Butylbenzene	127	119	30-146	2	30				
sec-Butylbenzene	133	124	33-157	3	30				
tert-Butylbenzene	118	112	41-152	4	30				
Carbon Tetrachloride	109	106	45-153	7	30				
Chlorobenzene	112	105	49-135	2	30				
Chloroethane	94	95	39-152	10	30				
2-Chloroethyl Vinyl Ether	97	89	32-139	1	30				
Chloroform	108	105	61-142	6	30				
Chloromethane	107	107	51-163	9	30				
2-Chlorotoluene	119	114	42-146	5	30				
4-Chlorotoluene	116	110	39-145	4	30				
Chlorotrifluoroethene	99	104	70-130	9	30				
1,2-Dibromo-3-chloropropane	96	82	30-139	7	30				
Dibromochloromethane	99	92	51-128	2	30				
1,2-Dibromoethane	105	96	54-129	1	30				
Dibromomethane	100	94	57-130	3	30				
1,2-Dichlorobenzene	109	101	36-133	1	30				
1,3-Dichlorobenzene	112	105	34-134	3	30				
1,4-Dichlorobenzene	110	104	35-136	4	30				
Dichlorodifluoromethane	94	94	26-151	9	30				
1,1-Dichloroethane	111	108	63-142	7	30				
1,2-Dichloroethane	99	94	68-131	3	30				
1,1-Dichloroethene	113	111	61-149	8	30				
cis-1,2-Dichloroethene	112	106	60-136	3	30				
trans-1,2-Dichloroethene	135	126	59-142	2	30				
1,2-Dichloropropane	110	106	62-135	5	30				
1,3-Dichloropropane	108	99	58-129	1	30				
2,2-Dichloropropane	101	100	53-147	8	30				
1,1-Dichloropropene	114	110	54-145	5	30				
cis-1,3-Dichloropropene	100	96	51-131	5	30				
trans-1,3-Dichloropropene	95	90	49-129	4	30				
Ethylbenzene	115	107	44-141	2	30				
Freon 113	119	121	56-156	11	30				
Freon 133a	97	99	61-131	6	30				
Hexachlorobutadiene	112	104	10-155	1	30				
2-Hexanone	128	111	32-160	6	30				
Isopropylbenzene	118	109	38-144	1	30				
p-Isopropyltoluene	124	118	29-152	4	30				
Methyl Tertiary Butyl Ether	106	95	55-129	1	30				
4-Methyl-2-pentanone	97	84	46-139	5	30				
Methylene Chloride	135	120	61-141	2	30				
n-Propylbenzene	133	125	39-157	3	30				
Styrene	105	97	35-134	2	30				
1,1,1,2-Tetrachloroethane	107	100	52-130	3	30				
1,1,2,2-Tetrachloroethane	111	98	40-152	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	127	118	42-149	2	30				
Toluene	117	110	50-146	4	30				
1,2,3-Trichlorobenzene	102	90	10-140	3	30				
1,2,4-Trichlorobenzene	97	88	10-136	1	30				
1,1,1-Trichloroethane	109	107	64-142	7	30				
1,1,2-Trichloroethane	106	97	54-139	1	30				
Trichloroethene	111	106	53-144	4	30				
Trichlorofluoromethane	103	100	47-163	6	30				
1,2,3-Trichloropropane	109	99	45-154	1	30				
1,2,4-Trimethylbenzene	118	113	37-149	5	30				
1,3,5-Trimethylbenzene	123	116	38-150	3	30				
Vinyl Chloride	108	108	50-154	9	30				
m+p-Xylene	112	106	44-137	3	30				
o-Xylene	108	101	42-137	3	30				
Batch number: E111301AA	Sample number(s): 6277627-6277630 UNSPK: P275761								
1,4-Dioxane	91	91	70-130	6	30				
Batch number: 11125SLB026	Sample number(s): 6277627-6277630 UNSPK: P275761								
Aniline	76	82	35-95	8	30				
Benzidine	34*	54	35-141	44*	30				
Benzoic acid	71	84	10-173	17	30				
Benzyl alcohol	102	100	67-115	2	30				
4-Bromophenyl-phenylether	91	92	67-129	2	30				
Carbazole	94	97	64-120	3	30				
4-Chloro-3-methylphenol	99	100	76-110	1	30				
4-Chloroaniline	63	75	23-95	19	30				
bis(2-Chloroethoxy)methane	94	94	75-104	0	30				
bis(2-Chloroethyl)ether	96	95	60-116	1	30				
bis(2-Chloroisopropyl)ether	90	91	55-142	2	30				
2-Chloronaphthalene	95	96	50-141	2	30				
2-Chlorophenol	103	102	73-121	1	30				
4-Chlorophenyl-phenylether	94	94	80-109	1	30				
Dibenzofuran	96	94	71-112	1	30				
1,2-Dichlorobenzene	86	88	66-108	2	30				
1,3-Dichlorobenzene	85	84	63-109	0	30				
1,4-Dichlorobenzene	85	83	70-100	1	30				
3,3'-Dichlorobenzidine	54	69	16-119	24	30				
2,4-Dichlorophenol	102	101	78-117	1	30				
2,4-Dimethylphenol	98	99	78-110	2	30				
3,5-Dimethylphenol	105	108	70-130	3	30				
4,6-Dinitro-2-methylphenol	84	88	24-116	5	30				
2,4-Dinitrophenol	66	72	20-143	9	30				
2,4-Dinitrotoluene	97	98	73-113	1	30				
2,6-Dinitrotoluene	96	98	69-123	3	30				
1,2-Diphenylhydrazine	96	99	71-129	4	30				
bis(2-Ethylhexyl)phthalate	100	101	63-122	2	30				
Hexachlorobenzene	90	92	77-114	3	30				
Hexachlorobutadiene	87	88	62-120	2	30				
Hexachlorocyclopentadiene	65	68	10-153	5	30				
Hexachloroethane	81	78	57-109	2	30				
Isophorone	93	94	73-102	2	30				
2-Methylphenol	102	100	75-111	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	102	102	71-111	0	30				
2-Nitroaniline	98	99	67-125	2	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	75	78	52-112	5	30				
Nitrobenzene	94	95	72-106	2	30				
2-Nitrophenol	96	96	74-115	1	30				
4-Nitrophenol	90	92	54-113	3	30				
N-Nitroso-di-n-propylamine	96	96	60-116	1	30				
N-Nitrosodiphenylamine	94	96	86-145	3	30				
Pentachlorophenol	74	83	28-127	12	30				
Phenol	101	100	58-126	0	30				
1,2,4-Trichlorobenzene	93	93	72-115	1	30				
2,4,5-Trichlorophenol	95	95	78-109	1	30				
2,4,6-Trichlorophenol	94	96	77-115	3	30				
Batch number: 11125SLC026	Sample number(s): 6277627-6277630 UNSPK: P275761								
Acenaphthene	89	90	63-105	1	30				
Acenaphthylene	91	90	67-114	2	30				
Anthracene	94	93	60-122	2	30				
Benzo(a)anthracene	101	101	59-128	1	30				
Benzo(a)pyrene	96	95	45-138	2	30				
Benzo(b)fluoranthene	124	126	43-155	1	30				
Benzo(g,h,i)perylene	41	46	33-141	10	30				
Benzo(k)fluoranthene	123	123	42-144	1	30				
Butylbenzylphthalate	119	120	57-173	0	30				
Di-n-butylphthalate	91	92	65-148	0	30				
Chrysene	97	99	48-134	1	30				
Dibenz(a,h)anthracene	55	58	22-133	6	30				
Diethylphthalate	95	93	70-136	2	30				
Dimethylphthalate	102	103	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	110	107	39-167	2	30				
Fluoranthene	106	106	26-166	1	30				
Fluorene	91	100	66-122	9	30				
Indeno(1,2,3-cd)pyrene	50	53	21-143	6	30				
1-Methylnaphthalene	96	97	72-123	1	30				
2-Methylnaphthalene	86	87	64-103	1	30				
Naphthalene	91	93	61-102	2	30				
N-Nitrosodimethylamine	86	87	48-113	1	30				
Di-n-octylphthalate	164	161	40-192	2	30				
Phenanthrene	92	94	12-165	2	30				
Pyrene	104	105	15-153	0	30				
Batch number: 11125SLF026	Sample number(s): 6277627-6277630 UNSPK: P275767								
N-Nitrosodimethylamine	72	71	70-130	2	30				
Batch number: 111300004A	Sample number(s): 6277627-6277630 UNSPK: P273941								
4-Amino-2,6-Dinitrotoluene	107	109	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	101	101	80-131	0	50				
2,6-Dinitrotoluene	103	104	80-127	2	50				
HMX	92	92	63-128	0	50				
Nitrobenzene	96	98	80-125	2	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitroglycerin	94	95	80-120	0	50				
2-Nitrotoluene	98	98	80-122	0	50				
3-Nitrotoluene	101	101	72-119	0	50				
4-Nitrotoluene	97	97	80-125	0	50				
PETN	120	122*	80-121	1	50				
RDX	94	95	75-129	1	50				
Tetryl	91	88	55-174	3	50				
1,3,5-Trinitrobenzene	100	101	82-126	1	50				
2,4,6-Trinitrotoluene	106	106	82-130	1	50				
Batch number: 111300003A	Sample number(s): 6277627-6277630 UNSPK: 6277627								
25a Formaldehyde 8315A	103	101	80-120	2	50				
Batch number: 111300023A	Sample number(s): 6277627,6277630 UNSPK: P273942								
6a Perchlorate EPA 6850	98	104	80-120	6	20				
Batch number: 111380029A	Sample number(s): 6277627-6277630 UNSPK: 6277627								
PCB-1016	95	69	29-146	33	50				
PCB-1260	102	75	39-149	30	50				
Batch number: 111290020A	Sample number(s): 6277627-6277630 UNSPK: 6277627								
EFH (C12-C14)	82	93	49-123	12	20				
EFH (C15-C20)	73	92	49-123	16	20				
EFH (C21-C30)	83	89	49-123	4	20				
EFH (C30 - C40)	55	69	49-123	9	20				
EFH (C8-C11)	62	71	49-123	14	20				
Batch number: 111250027A	Sample number(s): 6277627-6277630 UNSPK: 6277627								
Ethanol	82	85	48-130	4	20				
Isopropanol	84	88	12-149	4	20				
Methanol	76	87	43-138	13	20				
Batch number: 111260011A	Sample number(s): 6277627-6277630 UNSPK: 6277627								
Diethylene glycol	36*	40*	59-109	11	20				
Ethylene glycol	54*	58*	63-107	7	20				
Propylene glycol	60*	63	63-107	5	20				
Batch number: 111270006A	Sample number(s): 6277627-6277630 UNSPK: P275767								
m-Terphenyl	82	82	75-125	1	20				
o-Terphenyl	95	95	75-125	1	20				
p-Terphenyl	88	89	75-125	1	20				
Batch number: 111291026001A	Sample number(s): 6277627-6277630 UNSPK: P278711 BKG: P278711								
Antimony	23*	2*	75-125	45*	20	0.383	0.0979 J	119* (1)	20
Arsenic	-65 (2)	-34 (2)	75-125	7	20	9.24	3.92	81*	20
Beryllium	113	113	75-125	0	20	0.933	0.580	47*	20
Cadmium	125	132*	75-125	3	20	0.430	0.233	59* (1)	20
Chromium	155*	170*	75-125	3	20	22.9	18.1	24*	20
Cobalt	133*	144*	75-125	6	20	11.1	7.69	37*	20
Copper	137*	158*	75-125	6	20	15.3	11.2	30*	20
Lead	-118 (2)	-97 (2)	75-125	5	20	16.1	6.02	91*	20
Nickel	107	133*	75-125	7	20	20.7	13.1	45*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Silver	129*	132*	75-125	1	20	0.0351 J	0.0248 J	34* (1)	20
Thallium	173*	159*	75-125	7	20	0.259	0.240	8 (1)	20
Vanadium	4 (2)	55 (2)	75-125	8	20	61.7	33.6	59*	20
Zinc	42 (2)	127 (2)	75-125	12	20	59.3	40.9	37*	20
Batch number: 111291026001B	Sample number(s): 6277627-6277630 UNSPK: P278711 BKG: P278711								
Selenium	115	113	75-125	2	20	0.251 J	0.199 J	23* (1)	20
Batch number: 111291026001C	Sample number(s): 6277627-6277630 UNSPK: P278711 BKG: P278711								
Molybdenum	111	117	75-125	4	20	1.22	0.474	88* (1)	20
Batch number: 111291026001D	Sample number(s): 6277627-6277630 UNSPK: P278711 BKG: P278711								
Barium	252 (2)	318 (2)	75-125	4	20	124	96.6	25*	20
Batch number: 111295708001	Sample number(s): 6277627-6277630 UNSPK: 6277627 BKG: 6277627								
Aluminum	2053 (2)	2307 (2)	75-125	1	20	23,800	22,800	4	20
Boron	90	89	84-115	5	20	7.67	7.10	8 (1)	20
Calcium	110 (2)	70 (2)	75-125	3	20	5,740	5,560	3	20
Iron	4092 (2)	320 (2)	75-125	13	20	27,000	27,600	2	20
Lithium	97	97	82-114	3	20	20.7	20.1	3	20
Magnesium	266 (2)	250 (2)	75-125	1	20	5,970	5,850	2	20
Manganese	118 (2)	61 (2)	75-125	8	20	350	356	2	20
Phosphorus	88	83	75-125	3	20	236	221	7	20
Potassium	115	135*	75-125	3	20	3,300	3,130	5	20
Sodium	95	94	75-125	4	20	230	233	2 (1)	20
Strontium	95	95	75-115	4	20	26.2	25.3	4	20
Tin	83	82	80-110	5	20	2.22 J	2.32 J	4 (1)	20
Zirconium	91	91	75-125	4	20	1.76 J	2.45 J	33* (1)	20
Batch number: 111295711001	Sample number(s): 6277627-6277629 UNSPK: P279801 BKG: P279801								
Mercury	91	84	65-135	7	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 111305711001	Sample number(s): 6277630 UNSPK: P281100 BKG: P281100								
Mercury	94	96	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 111375708002	Sample number(s): 6277627-6277630 UNSPK: P288929 BKG: P288929								
Titanium	249 (2)	243 (2)	75-125	0	20	1,270	1,200	6	20
Batch number: 11130621201A	Sample number(s): 6277627-6277630 UNSPK: 6277627 BKG: 6277627								
7a Perchlorate EPA 314.0	117		80-120			170	174	3	15
Batch number: 11131102201A	Sample number(s): 6277627-6277628 UNSPK: P272817 BKG: P272817								
17a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11131102201B	Sample number(s): 6277629-6277630 UNSPK: 6277629 BKG: 6277629								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11136621202A	Sample number(s): 6277627-6277630 UNSPK: 6277627 BKG: 6277627								
11a Anions by 300.0 - Fluoride	54*		80-120			3.3	2.1	44* (1)	20
11a Anions by 300.0 - Nitrate	87		80-120			1.5	1.4 J	6 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139243201A	Sample number(s): 6277627-6277630				UNSPK: P275761		BKG: P275761		
3a Cr VI by EPA 7199	79		75-125			0.71 J	0.42 J	51* (1)	20
Batch number: 11136039401A	Sample number(s): 6277627-6277630				BKG: P278712				
18a pH by 9045C						8.15	8.11	0	3
Batch number: 11136182101A	Sample number(s): 6277627-6277630				BKG: P278712				
32a OR Potential						437	449	3	6
Batch number: 11145162401B	Sample number(s): 6277627-6277630				BKG: P275767				
Moisture Content by 160.3						13.4	13.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6277627	96	100	101	89
6277628	96	102	100	91
6277629	94	97	103	88
6277630	96	102	101	90
Blank	94	101	102	93
LCS	95	103	104	97
MS	95	98	106	98
MSD	95	96	105	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111291AA

	Toluene-d8
6277631	109
Blank	107
LCS	108
LCSD	108
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111301AA

	Toluene-d8
6277627	99
6277628	99
6277629	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Surrogate Quality Control

6277630	99
Blank	99
LCS	99
LCSD	99
MS	99
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6277631	105	100	98	99
Blank	104	102	98	99
LCS	106	102	99	101
LCSD	106	101	98	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11125SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6277627	94	95	82	84	83	85
6277628	93	93	82	84	85	87
6277629	91	91	82	81	83	85
6277630	97	95	81	85	84	88
Blank	93	95	89	87	89	87
LCS	93	94	88	86	88	88
MS	95	96	88	88	87	86
MSD	95	98	92	91	89	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11125SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6277627	103	98	103
6277628	102	95	105
6277629	110	101	109
6277630	113	102	108
Blank	87	93	103
LCS	103	94	100
MS	96	91	102
MSD	97	91	103
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11125SLF026

	N-Nitrosodimethylamine-d6
6277627	100
6277628	111

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Surrogate Quality Control

6277629	118
6277630	131
Blank	99
LCS	102
MS	107
MSD	111

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11126A34A

Trifluorotoluene-F

6277627	86
6277628	74
6277629	73
6277630	77
Blank	83
LCS	88
LCSD	88

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11131A20A

Trifluorotoluene-F

6277631	73
Blank	64
LCS	116
LCSD	116

Limits: 63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111300003A

Butyraldehyde

6277627	102
6277628	100
6277629	87
6277630	110
Blank	98
LCS	94
MS	92
MSD	92

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111300004A

2-Nitro-m-xylene

6277627	102
6277628	124
6277629	121
6277630	116

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Quality Control Summary

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Reported: 06/01/11 at 10:36 AM

Surrogate Quality Control

Blank	123	
LCS	149*	
LCSD	108	
MS	168*	
MSD	152*	
Limits:	80-146	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111380029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6277627	97	89
6277628	164*	171*
6277629	89	82
6277630	96	87
Blank	95	96
LCS	100	95
LCSD	99	95
MS	99	87
MSD	69	67
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111250027A

	Acetone
6277627	92
6277628	82
6277629	87
6277630	88
Blank	104
LCS	103
MS	89
MSD	91
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111260011A

	Tetramethylene glycol
6277627	79
6277628	85
6277629	74
6277630	84
Blank	88
LCS	101
MS	82
MSD	84
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111270006A

	n-Triacontane-d62

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245335
Reported: 06/01/11 at 10:36 AM

Surrogate Quality Control

6277627	72
6277628	67
6277629	77
6277630	77
Blank	84
LCS	81
MS	77
MSD	78
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111290020A

	Chlorobenzene	Orthoterphenyl
6277627	76	95
6277628	61	84
6277629	60	79
6277630	69	87
Blank	76	97
LCS	82	107
MS	70	94
MSD	77	99
Limits:	37-125	47-145

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acct#13013 Cap#1245335 Sample#6277627-31

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-021-SA8N-SB-4.5	05.04.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA8N-SB-4.0-5.0	05.04.11	0915	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-021-SA8N-SB-9.5	05.04.11	0920	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA8N-SB-9.0-10.0	05.04.11	0925	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-080-SA8N-SB-4.5	05.04.11	1035	SOIL	NONE	5-Encores										X	X	X										
SL-080-SA8N-SB-4.0-5.0	05.04.11	1040	SOIL	NONE	4-Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
~~SL-087-SA8N-SB-4.5~~	~~05.04.11~~	~~1430~~	~~SOIL~~	~~NONE~~	~~5-Encores~~										X	X	X										
~~SL-087-SA8N-SB-4.0-5.0~~	~~05.04.11~~	~~1435~~	~~SOIL~~	~~NONE~~	~~4-16 oz. Jars~~	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-050411	05.04.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	5/04/2011 1700	Mary Hartel 5/5/11 935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8695 1442 0854	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/05/2011
Group Number: 1245336
SDG: DX076
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-021-SA8N-SB-4.0-5.0 Soil	6277632
SL-021-SA8N-SB-9.0-10.0 Soil	6277633
SL-080-SA8N-SB-4.0-5.0 Soil	6277634
SL-067-SA8N-SB-4.0-5.0 Soil	6277635

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277632
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7617 SDG#: DX076-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277632
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7617 SDG#: DX076-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0271	U	0.0271	1.15	1
11031	12378-PeCDD	40321-76-4	0.108	J	0.0265	5.73	1
11031	123478-HxCDD	39227-28-6	0.0705	JB	0.0372	5.73	1
11031	123678-HxCDD	57653-85-7	0.114	JBQ	0.0384	5.73	1
11031	123789-HxCDD	19408-74-3	0.157	J	0.0358	5.73	1
11031	1234678-HpCDD	35822-46-9	0.625	JB	0.0654	5.73	1
11031	OCDD	3268-87-9	1.50	JB	0.0618	11.5	1
11031	2378-TCDF	51207-31-9	0.0475	J	0.0289	1.15	1
11031	12378-PeCDF	57117-41-6	0.109	JB	0.0180	5.73	1
11031	23478-PeCDF	57117-31-4	0.170	JB	0.0192	5.73	1
11031	123478-HxCDF	70648-26-9	0.173	JB	0.0333	5.73	1
11031	123678-HxCDF	57117-44-9	0.140	JB	0.0311	5.73	1
11031	123789-HxCDF	72918-21-9	0.293	JB	0.0332	5.73	1
11031	234678-HxCDF	60851-34-5	0.260	JBQ	0.0353	5.73	1
11031	1234678-HpCDF	67562-39-4	0.820	JB	0.0384	5.73	1
11031	1234789-HpCDF	55673-89-7	0.185	JB	0.0539	5.73	1
11031	OCDF	39001-02-0	0.474	JBQ	0.0504	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	54	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	49	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	45	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	50	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	57	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-021-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277632
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7617 SDG#: DX076-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-4.0-5.0

LLI Sample # SW 6277632
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:15

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7617 SDG#: DX076-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 15:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277633
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7618 SDG#: DX076-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277633
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7618 SDG#: DX076-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0408	JQ	0.0271	1.15	1
11031	12378-PeCDD	40321-76-4	0.355	JQ	0.0301	5.75	1
11031	123478-HxCDD	39227-28-6	0.253	JB	0.0472	5.75	1
11031	123678-HxCDD	57653-85-7	0.349	JB	0.0506	5.75	1
11031	123789-HxCDD	19408-74-3	0.527	J	0.0488	5.75	1
11031	1234678-HpCDD	35822-46-9	3.39	JB	0.0972	5.75	1
11031	OCDD	3268-87-9	33.6	B	0.0702	11.5	1
11031	2378-TCDF	51207-31-9	0.0452	U	0.0452	1.15	1
11031	12378-PeCDF	57117-41-6	0.399	JB	0.0210	5.75	1
11031	23478-PeCDF	57117-31-4	0.294	JB	0.0196	5.75	1
11031	123478-HxCDF	70648-26-9	0.432	JBQ	0.0529	5.75	1
11031	123678-HxCDF	57117-44-9	0.384	JB	0.0470	5.75	1
11031	123789-HxCDF	72918-21-9	0.887	JB	0.0578	5.75	1
11031	234678-HxCDF	60851-34-5	0.484	JB	0.0465	5.75	1
11031	1234678-HpCDF	67562-39-4	1.12	JB	0.0365	5.75	1
11031	1234789-HpCDF	55673-89-7	0.614	JB	0.0524	5.75	1
11031	OCDF	39001-02-0	1.59	JB	0.0529	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	65	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277633
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7618 SDG#: DX076-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SB-9.0-10.0

LLI Sample # SW 6277633
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 09:25

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7618 SDG#: DX076-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 16:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277634
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7619 SDG#: DX076-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277634
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7619 SDG#: DX076-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0290 U	0.0290	1.10	1
11031	12378-PeCDD	40321-76-4	0.0451 JBQ	0.0307	5.51	1
11031	123478-HxCDD	39227-28-6	0.0367 JB	0.0226	5.51	1
11031	123678-HxCDD	57653-85-7	0.0993 JB	0.0235	5.51	1
11031	123789-HxCDD	19408-74-3	0.178 JBQ	0.0232	5.51	1
11031	1234678-HpCDD	35822-46-9	0.314 JB	0.0348	5.51	1
11031	OCDD	3268-87-9	1.06 JB	0.0230	11.0	1
11031	2378-TCDF	51207-31-9	0.0358 U	0.0358	1.10	1
11031	12378-PeCDF	57117-41-6	0.121 JBQ	0.0185	5.51	1
11031	23478-PeCDF	57117-31-4	0.212 JB	0.0186	5.51	1
11031	123478-HxCDF	70648-26-9	0.0927 JB	0.0197	5.51	1
11031	123678-HxCDF	57117-44-9	0.0610 JBQ	0.0168	5.51	1
11031	123789-HxCDF	72918-21-9	0.197 JBQ	0.0226	5.51	1
11031	234678-HxCDF	60851-34-5	0.103 JB	0.0169	5.51	1
11031	1234678-HpCDF	67562-39-4	0.207 JBQ	0.0102	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0927 JB	0.0185	5.51	1
11031	OCDF	39001-02-0	0.376 JB	0.0400	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-080-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277634
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7619 SDG#: DX076-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA8N-SB-4.0-5.0

LLI Sample # SW 6277634
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 10:40

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7619 SDG#: DX076-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 19:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277635
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7620 SDG#: DX076-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277635
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7620 SDG#: DX076-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0295	U	0.0295	1.19	1
11031	12378-PeCDD	40321-76-4	0.0296	U	0.0296	5.96	1
11031	123478-HxCDD	39227-28-6	0.0246	U	0.0246	5.96	1
11031	123678-HxCDD	57653-85-7	0.0694	JB	0.0257	5.96	1
11031	123789-HxCDD	19408-74-3	0.0996	JQ	0.0255	5.96	1
11031	1234678-HpCDD	35822-46-9	0.715	JB	0.0405	5.96	1
11031	OCDD	3268-87-9	4.13	JB	0.0711	11.9	1
11031	2378-TCDF	51207-31-9	0.127	U	0.127	1.19	1
11031	12378-PeCDF	57117-41-6	1.49	JB	0.0703	5.96	1
11031	23478-PeCDF	57117-31-4	0.520	JB	0.0740	5.96	1
11031	123478-HxCDF	70648-26-9	0.457	JBQ	0.0373	5.96	1
11031	123678-HxCDF	57117-44-9	0.144	JBQ	0.0326	5.96	1
11031	123789-HxCDF	72918-21-9	0.196	JBQ	0.0385	5.96	1
11031	234678-HxCDF	60851-34-5	0.287	JB	0.0329	5.96	1
11031	1234678-HpCDF	67562-39-4	0.726	JB	0.0266	5.96	1
11031	1234789-HpCDF	55673-89-7	0.123	JB	0.0434	5.96	1
11031	OCDF	39001-02-0	0.757	JBQ	0.0457	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	63	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277635
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7620 SDG#: DX076-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SB-4.0-5.0

LLI Sample # SW 6277635
LLI Group # 1245336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/04/2011 14:35

Submitted: 05/05/2011 09:35
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7620 SDG#: DX076-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 18:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245336
Reported: 05/27/11 at 08:38 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11145162401B	Sample number(s): 6277632-6277635								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11130001	Sample number(s): 6277632-6277633,6277635								
2378-TCDD	0.0281 U	0.0281	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0266 U	0.0266	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0476 J	0.0247	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0438 J	0.0263	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0248 U	0.0248	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.222 J	0.0426	5.00	ng/kg	88		70-140		
OCDD	0.374 J	0.0430	10.0	ng/kg	91		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0464 J	0.0168	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0806 J	0.0170	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0433 J	0.0238	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0492 J	0.0204	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0800 J	0.0211	5.00	ng/kg	89		78-130		
234678-HxCDF	0.112 J	0.0182	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.188 J	0.0202	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0898 J	0.0333	5.00	ng/kg	88		78-138		
OCDF	0.189 J	0.0454	10.0	ng/kg	90		63-170		
Batch number: 11137001	Sample number(s): 6277634								
2378-TCDD	0.0449 J	0.0174	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0632 J	0.0228	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0292 J	0.0186	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0513 J	0.0190	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0377 J	0.0186	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.254 J	0.0262	5.00	ng/kg	96		70-140		
OCDD	0.399 J	0.0224	10.0	ng/kg	95		78-144		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0253 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0780 J	0.0121	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0716 J	0.0143	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0503 J	0.0125	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0917 J	0.0156	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0914 J	0.0127	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.188 J	0.0100	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.106 J	0.0179	5.00	ng/kg	96		78-138		
OCDF	0.292 J	0.0360	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245336
Reported: 05/27/11 at 08:38 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11145162401B	Sample number(s): 6277632-6277635					BKG: P275767			
Moisture Content by 160.3						13.4	13.3	1	20
Batch number: 11130001	Sample number(s): 6277632-6277633,6277635 UNSPK: P275773								
2378-TCDD	91	93	67-158	3	25				
12378-PeCDD	95	94	70-142	0	25				
123478-HxCDD	94	96	70-164	2	25				
123678-HxCDD	95	95	76-134	0	25				
123789-HxCDD	94	94	64-162	0	25				
1234678-HpCDD	93	93	70-140	0	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	106	104	75-158	1	25				
12378-PeCDF	98	98	80-134	1	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	101	97	72-134	3	25				
123678-HxCDF	98	96	84-130	1	25				
123789-HxCDF	95	94	78-130	0	25				
234678-HxCDF	101	98	70-156	3	25				
1234678-HpCDF	91	94	82-122	3	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDF	98	97	63-170	1	25				
Batch number: 11137001	Sample number(s): 6277634 UNSPK: P281729								
2378-TCDD	93	93	67-158	3	25				
12378-PeCDD	97	99	70-142	5	25				
123478-HxCDD	93	98	70-164	8	25				
123678-HxCDD	91	96	76-134	8	25				
123789-HxCDD	91	94	64-162	5	25				
1234678-HpCDD	80	103	70-140	8	25				
OCDD	61 (2)	146 (2)	78-144	15	25				
2378-TCDF	90	98	75-158	8	25				
12378-PeCDF	91	95	80-134	7	25				
23478-PeCDF	89	93	68-160	7	25				
123478-HxCDF	91	100	72-134	11	25				
123678-HxCDF	92	95	84-130	5	25				
123789-HxCDF	95	95	78-130	3	25				
234678-HxCDF	93	100	70-156	8	25				
1234678-HpCDF	76*	93	82-122	10	25				
1234789-HpCDF	91	94	78-138	6	25				
OCDF	85	92	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11130001

13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245336
Reported: 05/27/11 at 08:38 AM

Surrogate Quality Control

6277632	52	50	54	57	49	59
6277633	61	69	66	71	71	67
6277635	61	67	64	71	69	65
Blank	62	63	51	57	63	60
MS	64	70	22	26	71	68
MSD	44	38	26	32	37	43
OPR	47	43	28	32	41	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6277632	57	46	43	57	57	54
6277633	80	64	59	65	72	73
6277635	84	61	57	63	72	74
Blank	73	51	44	77	68	68
MS	43	64	55	72	75	68
MSD	40	37	32	46	46	41
OPR	43	39	31	50	52	48
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6277632	54	57	49	46	45	56
6277633	71	72	70	68	58	70
6277635	73	72	71	69	56	74
Blank	68	68	67	63	58	66
MS	67	74	73	69	61	76
MSD	41	44	40	36	37	49
OPR	48	51	49	43	41	51
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6277634	71	79	70	80	77	72
Blank	83	89	86	96	90	91
MS	82	83	80	79	83	84
MSD	81	82	82	82	81	79
OPR	72	74	74	82	76	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6277634	98	74	75	91	80	82
Blank	113	84	82	107	92	96
MS	77	79	69	96	82	83
MSD	76	76	68	94	81	81
OPR	96	67	65	95	78	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245336
Reported: 05/27/11 at 08:38 AM

Surrogate Quality Control

	Limits:	28-143	26-138	17-157	35-197	25-181	32-141
		13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6277634		81	83	88	94	68	83
Blank		96	96	100	102	80	92
MS		83	85	81	72	83	82
MSD		80	83	78	70	83	82
OPR		82	82	82	82	68	79
	Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1245336 sample#6277632-35

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
¶ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-021-SA8N-SB-4.5	05.04.11	0910	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA8N-SB-4.0-5.0	05.04.11	0915	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-021-SA8N-SB-9.5	05.04.11	0920	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA8N-SB-9.0-10.0	05.04.11	0925	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-080-SA8N-SB-4.5	05.04.11	1035	SOIL	NONE	5-Encores										X	X	X										
SL-080-SA8N-SB-4.0-5.0	05.04.11	1040	SOIL	NONE	4-Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-067-SA8N-SB-4.5	05.04.11	1430	SOIL	NONE	5 -Encores										X	X	X										
SL-067-SA8N-SB-4.0-5.0	05.04.11	1435	SOIL	NONE	4 -16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
TB-050411	05.04.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	5/04/2011 1700	5/5/11 935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1442 0854	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/06/2011
Group Number: 1245555
SDG: DE144
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-056-SA8N-SB-4.0-5.0 Soil	6278711
SL-056-SA8N-SB-7.0-8.0 Soil	6278712
SL-057-SA8N-SB-4.0-5.0 Soil	6278713
SL-057-SA8N-SB-7.0-8.0 Soil	6278714
SL-062-SA8N-SB-4.0-5.0 Soil	6278715
TB-050511 Water	6278716

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	13		6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	9.6		0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		24.75
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.95	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	3,600	U	3,600	3,600	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	5.7	U	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	37		1.9	9.7		5
10225	PCB-1260	11096-82-5	2.2	U	2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.79	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	7.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		5.76	22.9		1
07914	Boron	7440-42-8	7.14		1.02	5.73		1
01650	Calcium	7440-70-2	4,850		7.02	22.9		1
01654	Iron	7439-89-6	21,600		5.40	22.9		1
01656	Lithium	7439-93-2	15.2		0.25	2.3		1
01657	Magnesium	7439-95-4	4,090		2.91	11.5		1
06958	Manganese	7439-96-5	401		0.0893	0.573		1
10145	Phosphorus	7723-14-0	235		0.641	11.5		1
01662	Potassium	7440-09-7	3,510		20.6	57.3		1
01667	Sodium	7440-23-5	126		42.7	115		1
07968	Strontium	7440-24-6	23.2		0.0710	0.573		1
06969	Tin	7440-31-5	2.31	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,330		0.427	1.12		1
10146	Zirconium	7440-67-7	2.00	J	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.439		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0881	0.441		2
06126	Barium	7440-39-3	142		0.119	0.441		2
06127	Beryllium	7440-41-7	1.07		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.492		0.0441	0.110		2
06131	Chromium	7440-47-3	26.3		0.132	0.441		2
06132	Cobalt	7440-48-4	12.7		0.0220	0.110		2
06133	Copper	7440-50-8	17.5		0.0727	0.441		2
06135	Lead	7439-92-1	18.5		0.0115	0.220		2
06138	Molybdenum	7439-98-7	1.39		0.0551	0.110		2
06139	Nickel	7440-02-0	23.7		0.110	0.441		2
06141	Selenium	7782-49-2	0.288	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0402	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.297		0.0330	0.110		2
06148	Vanadium	7440-62-2	70.6		0.0242	0.110		2
06149	Zinc	7440-66-6	67.9		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 05:57	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 15:50	Jason M Long	24.75
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112624329	05/06/2011 12:27	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11127SLC026	05/17/2011 18:03	Matthew S Woods	1

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14401 SDG#: DE144-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 00:01	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 10:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11127SLC026	05/09/2011 09:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 20:04	Elizabeth J Marin	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:26	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 10:47	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:11	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:43	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 18:39	Richard A Shober	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 13:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 20:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/10/2011 09:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 13:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:14	Tara L Snyder	1

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Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278711
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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14401 SDG#: DE144-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/13/2011 08:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 11:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 11:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 11:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/13/2011 08:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 11:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/18/2011 22:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202A	05/18/2011 22:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/11/2011 23:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 21:09	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:36	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	13		0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.1	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.7	U	17.7	35.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Anthracene	120-12-7	18	U	18	180		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	18	U	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1

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Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	18	U	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1

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SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
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Project Name: SSFL Area IV Collocated Soil Sampling

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14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.6
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1

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SSFL Area IV Collocated Soil Sampling
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.82	J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.30	21.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.34	J	0.938	5.27		1
01650	Calcium	7440-70-2	3,260		6.46	21.1		1
01654	Iron	7439-89-6	19,700		4.97	21.1		1
01656	Lithium	7439-93-2	23.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,610		2.68	10.5		1
06958	Manganese	7439-96-5	267		0.0822	0.527		1
10145	Phosphorus	7723-14-0	362		0.590	10.5		1
01662	Potassium	7440-09-7	1,600		19.0	52.7		1
01667	Sodium	7440-23-5	143		39.3	105		1
07968	Strontium	7440-24-6	13.3		0.0654	0.527		1
06969	Tin	7440-31-5	2.64	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,280		0.401	1.05		1
10146	Zirconium	7440-67-7	1.82	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0633	U	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.39		0.0843	0.422		2
06126	Barium	7440-39-3	95.7		0.114	0.422		2
06127	Beryllium	7440-41-7	0.511		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.0512	J	0.0422	0.105		2
06131	Chromium	7440-47-3	18.7		0.127	0.422		2
06132	Cobalt	7440-48-4	6.42		0.0211	0.105		2
06133	Copper	7440-50-8	7.97		0.0689	0.418		2
06135	Lead	7439-92-1	3.95		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.294		0.0527	0.105		2
06139	Nickel	7440-02-0	16.4		0.105	0.422		2
06141	Selenium	7782-49-2	0.0679	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0137	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.370		0.0316	0.105		2
06148	Vanadium	7440-62-2	40.3		0.0232	0.105		2
06149	Zinc	7440-66-6	64.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	437		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA8N-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 06:20	Angela D Sneeringer	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 16:10	Jason M Long	24.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112624329	05/06/2011 12:29	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11127SLC026	05/17/2011 18:54	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 01:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 13:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11127SLC026	05/09/2011 09:00	Katheryne V Sponheimer	1

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Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 20:41	Elizabeth J Marin	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:29	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 11:30	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 18:58	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 09:16	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 20:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 20:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 10:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:24	Choon Y Tian	2

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Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278712
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14402 SDG#: DE144-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/18/2011 23:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202A	05/18/2011 23:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/20/2011 18:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 21:21	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:37	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	J	6.8	8.1		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.87
06192	Methylene Chloride	75-09-2	8.8		0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.1	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	25.2	J	19.2	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.90	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.93	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.60	22.3		1

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	13.3		0.990	5.56		1
01650	Calcium	7440-70-2	68,200		34.1	111		5
01654	Iron	7439-89-6	29,200		5.24	22.3		1
01656	Lithium	7439-93-2	28.0		0.24	2.2		1
01657	Magnesium	7439-95-4	7,540		2.83	11.1		1
06958	Manganese	7439-96-5	320		0.0868	0.556		1
10145	Phosphorus	7723-14-0	584		0.623	11.1		1
01662	Potassium	7440-09-7	5,480		20.0	55.6		1
01667	Sodium	7440-23-5	162		41.5	111		1
07968	Strontium	7440-24-6	115		0.0690	0.556		1
06969	Tin	7440-31-5	2.20	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,220		0.427	1.12		1
10146	Zirconium	7440-67-7	1.35	J	0.935	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0992	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.43		0.0899	0.449		2
06126	Barium	7440-39-3	128		0.121	0.449		2
06127	Beryllium	7440-41-7	0.806		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.284		0.0449	0.112		2
06131	Chromium	7440-47-3	34.1		0.135	0.449		2
06132	Cobalt	7440-48-4	12.0		0.0225	0.112		2
06133	Copper	7440-50-8	18.8		0.0742	0.449		2
06135	Lead	7439-92-1	10.4		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.399		0.0562	0.112		2
06139	Nickel	7440-02-0	23.4		0.112	0.449		2
06141	Selenium	7782-49-2	0.292	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0267	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.397		0.0337	0.112		2
06148	Vanadium	7440-62-2	68.8		0.0247	0.112		2
06149	Zinc	7440-66-6	74.2		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0310	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	460		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-057-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 06:42	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 16:29	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112624329	05/06/2011 12:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112624329	05/06/2011 12:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11127SLC026	05/17/2011 19:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 01:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 13:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11127SLC026	05/09/2011 09:00	Katheryne V Sponheimer	1

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 21:17	Elizabeth J Marin	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 12:12	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 19:16	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 09:41	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 20:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 20:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 10:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/11/2011 18:05	John P Hook	5
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 10:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/13/2011 08:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2

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Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278713
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14403 SDG#: DE144-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/11/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/18/2011 23:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202A	05/18/2011 23:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/20/2011 19:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 21:46	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:38	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0	J	7.3	8.8		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	34		0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.17	J	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.2
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.5	J	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.96	J	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	6.7		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	3.8		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	6.3		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		5.53	22.0		1
07914	Boron	7440-42-8	12.9		0.979	5.50		1
01650	Calcium	7440-70-2	117,000		33.7	110		5
01654	Iron	7439-89-6	25,200		5.18	22.0		1
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	7,090		2.79	11.0		1
06958	Manganese	7439-96-5	311		0.0858	0.550		1
10145	Phosphorus	7723-14-0	511		0.616	11.0		1
01662	Potassium	7440-09-7	4,090		19.8	55.0		1
01667	Sodium	7440-23-5	191		41.0	110		1
07968	Strontium	7440-24-6	192		0.0682	0.550		1
06969	Tin	7440-31-5	2.01	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,170		0.414	1.09		1
10146	Zirconium	7440-67-7	1.77	J	0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0863	0.431		2
06126	Barium	7440-39-3	112		0.116	0.431		2
06127	Beryllium	7440-41-7	0.748		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.487		0.0431	0.108		2
06131	Chromium	7440-47-3	28.6		0.129	0.431		2
06132	Cobalt	7440-48-4	11.1		0.0216	0.108		2
06133	Copper	7440-50-8	18.1		0.0712	0.431		2
06135	Lead	7439-92-1	9.47		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.258		0.0539	0.108		2
06139	Nickel	7440-02-0	22.4		0.108	0.431		2
06141	Selenium	7782-49-2	0.277	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0247	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.338		0.0324	0.108		2
06148	Vanadium	7440-62-2	61.3		0.0237	0.108		2
06149	Zinc	7440-66-6	68.2		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1		1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	457		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-057-SA8N-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 07:05	Angela D Sneeringer	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 16:49	Jason M Long	25.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112624329	05/06/2011 12:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112624329	05/06/2011 12:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11127SLC026	05/17/2011 19:27	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 02:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 14:06	Joseph M Gambler	1

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Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
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Project Name: SSFL Area IV Collocated Soil Sampling

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144-4 SDG#: DE144-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11127SLC026	05/09/2011 09:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 21:54	Elizabeth J Marin	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 12:55	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:49	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:50	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 19:35	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 10:06	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 21:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 20:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 11:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/11/2011 18:08	John P Hook	5
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 11:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278714
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

144-4 SDG#: DE144-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/13/2011 08:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/18/2011 23:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202A	05/18/2011 23:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/12/2011 00:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243201A	05/20/2011 22:04	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:39	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	8.9		0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	J	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	J	19.3	38.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenanthrene	85-01-8	19	U	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

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14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	2.2		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.54	22.0		1
07914	Boron	7440-42-8	12.4		0.981	5.51		1
01650	Calcium	7440-70-2	113,000		33.8	110		5
01654	Iron	7439-89-6	25,000		5.19	22.0		1
01656	Lithium	7439-93-2	23.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,900		2.80	11.0		1

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SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	319		0.0860	0.551		1
10145	Phosphorus	7723-14-0	585		0.617	11.0		1
01662	Potassium	7440-09-7	4,200		19.8	55.1		1
01667	Sodium	7440-23-5	183		41.1	110		1
07968	Strontium	7440-24-6	189		0.0683	0.551		1
06969	Tin	7440-31-5	2.06	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,180		0.431	1.13		1
10146	Zirconium	7440-67-7	1.75	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0661	U	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.39		0.0882	0.441		2
06126	Barium	7440-39-3	131		0.119	0.441		2
06127	Beryllium	7440-41-7	0.872		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.460		0.0441	0.110		2
06131	Chromium	7440-47-3	36.8		0.132	0.441		2
06132	Cobalt	7440-48-4	13.6		0.0220	0.110		2
06133	Copper	7440-50-8	22.1		0.0728	0.441		2
06135	Lead	7439-92-1	11.5		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.244		0.0551	0.110		2
06139	Nickel	7440-02-0	26.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.325	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0132	U	0.0132	0.110		2
06145	Thallium	7440-28-0	0.370		0.0331	0.110		2
06148	Vanadium	7440-62-2	75.8		0.0243	0.110		2
06149	Zinc	7440-66-6	85.4		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

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14405 SDG#: DE144-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	463	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.10	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-062-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 07:27	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 17:08	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112624329	05/06/2011 12:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112624329	05/06/2011 12:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11127SLC026	05/17/2011 19:44	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 02:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 14:37	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11127SLC026	05/09/2011 09:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1

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Laboratory Sample Analysis Record

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05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11126A34A	05/06/2011 22:30	Elizabeth J Marin	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201112624329	05/06/2011 12:37	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111300004A	05/20/2011 13:37	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111300003A	05/11/2011 21:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380029A	05/19/2011 19:53	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111380029A	05/18/2011 21:40	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111300003A	05/11/2011 08:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111300004A	05/10/2011 14:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111290020A	05/11/2011 10:31	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 21:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111260011A	05/09/2011 21:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111270006A	05/11/2011 12:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111290020A	05/09/2011 18:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111270006A	05/08/2011 11:00	Karen L Beyer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111260011A	05/09/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/11/2011 18:12	John P Hook	5
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:29	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 11:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/13/2011 08:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278715
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14405 SDG#: DE144-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/19/2011 00:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202A	05/19/2011 00:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/12/2011 01:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 22:11	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11131102201B	05/12/2011 09:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11131102201B	05/11/2011 15:55	Carolyn M Mastropietro	1
01821	32a OR Potential	ASTM D1498	1	11136182101A	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401A	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-050511 Water
SSFL Area IV Collocated Soil Sampling
TB-050511

LLI Sample # WW 6278716
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14406 SDG#: DE144-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-050511 Water
SSFL Area IV Collocated Soil Sampling
TB-050511

LLI Sample # WW 6278716
LLI Group # 1245555
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:00

Submitted: 05/06/2011 09:40
Reported: 05/26/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14406 SDG#: DE144-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111262AA	05/06/2011 21:35	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111291AA	05/09/2011 12:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111262AA	05/06/2011 21:35	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111291AA	05/09/2011 12:48	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11131A20A	05/12/2011 16:59	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11131A20A	05/12/2011 16:59	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111311AA	Sample number(s): 6278711-6278715									
Acetone	6.7	U	6.7	8.0	ug/kg	104	110	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	110	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	101	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*	128*	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	94	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	87	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	100	102	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105	97	72-120	9	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111	104	75-120	6	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	96	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	103	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101	101	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	90	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	99	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	104	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	96	95	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	99	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	97	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	79	77	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	94	97	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	98	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	100	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	101	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	98	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102	100	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	77	77	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107	108	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	101	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	102	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	104	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108	108	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	103	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94	96	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	105	105	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	99	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	91	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	105	109	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	91	94	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	88	57-120	15	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	98	102	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	102	75-120	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	105	108	61-134	2	30
Methylene Chloride	0.92	J	0.24	4.0	ug/kg	99	105	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	103	77-120	8	30
Styrene	0.10	U	0.10	4.0	ug/kg	92	92	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	99	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104	104	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107	107	77-120	1	30
Toluene	0.09	J	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	88	87	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	101	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	100	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	102	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	90	91	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	105	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	101	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105	103	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	93	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	101	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Batch number: E111291AA	Sample number(s): 6278716									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	100	101	80-123	1	30
Batch number: E111301AA	Sample number(s): 6278711-6278715									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	113	70-130	2	30
Batch number: L111262AA	Sample number(s): 6278716									
Acetone	6	U	6.	20	ug/l	113	123	49-234	8	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	104	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	90	92	66-151	3	30
n-Butylbenzene	1	U	1.	5	ug/l	93	93	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	95	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	94	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	105	105	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	95	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	89	89	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	104	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	85	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	82	82	38-136	0	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	92	56-126	3	30
Dibromochloromethane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	94	97	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	90	93	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	111	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	96	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	96	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	87	90	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	91	92	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	97	99	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	91	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	99	100	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	97	96	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	94	95	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	81	82	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	93	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	98	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	84	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	92	94	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	90	92	80-120	2	30
Styrene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	87	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	99	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	92	94	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	97	98	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	93	93	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	102	102	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	111	111	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	96	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	92	93	74-120	0	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	91	92	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	88	92	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	0	30
Batch number: 11127SLA026	Sample number(s): 6278711-6278715									
Aniline	170 U		170.	500	ug/kg	94		34-94		
Anthracene	17	U	17.	170	ug/kg	100		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	106		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	88		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	84		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	103		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	75		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	100		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	104		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	102		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	85		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	92		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	101		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	124		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	77		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11127SLC026	Sample number(s): 6278711-6278715									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	76		70-130		
Batch number: 11129SLB026	Sample number(s): 6278711-6278715									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	78		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.72	J	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	94		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	92		75-137		
Chrysene	0.37	J	0.33	1.7	ug/kg	87		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	89		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	86		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	88		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	89		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	69		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	73		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	68		55-118		
Di-n-octylphthalate	34		6.0	18	ug/kg	109		55-176		
Phenanthrene	0.83	J	0.67	1.7	ug/kg	83		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 11126A34A	Sample number(s): 6278711-6278715									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	73	74	67-119	1	30
Batch number: 11131A20A	Sample number(s): 6278716									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111300004A	Sample number(s): 6278711-6278715									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	100	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	108		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	104		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	105		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	91		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	118		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	87		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111300003A	Sample number(s): 6278711-6278715									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	106		80-126		
Batch number: 111300023A	Sample number(s): 6278711,6278714									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 111380029A	Sample number(s): 6278711-6278715									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	85	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111290020A	Sample number(s): 6278711-6278715									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	102		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	110		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	114		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		54-107		
Batch number: 111260011A	Sample number(s): 6278711-6278715									
Diethylene glycol	5.0	U	5.0	10	mg/kg	93		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	92		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	92		75-125		
Batch number: 111300036A	Sample number(s): 6278711-6278715									
Ethanol	100 U		100.	500	ug/kg	90		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	85		68-129		
Batch number: 111270006A	Sample number(s): 6278711-6278715									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	103		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111291026001A	Sample number(s): 6278711-6278715									
Antimony	0.0571	U	0.0571	0.190	mg/kg	64		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	94		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	99		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	100		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	105		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		82-118		
Copper	0.503		0.0629	0.381	mg/kg	102		83-110		
Lead	0.0099	U	0.0099	0.190	mg/kg	97		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	100		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	91		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	99		83-110		
Vanadium	0.0744	J	0.0210	0.0952	mg/kg	89		84-116		
Zinc	0.738	J	0.533	2.86	mg/kg	100		81-112		
Batch number: 111291026001B	Sample number(s): 6278711-6278715									
Selenium	0.0381	U	0.0381	0.381	mg/kg	96		83-111		
Batch number: 111291026001C	Sample number(s): 6278711-6278715									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	102		78-122		
Batch number: 111291026001D	Sample number(s): 6278711-6278715									
Barium	0.103	U	0.103	0.381	mg/kg	97		81-111		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111295708001	Sample number(s): 6278711-6278715									
Aluminum	12.4	J	4.98	19.8	mg/kg	90		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	90		78-110		
Calcium	17.6	J	6.07	19.8	mg/kg	98		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	87		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	98		80-120		
Magnesium	3.88	J	2.51	9.90	mg/kg	95		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	97		89-112		
Phosphorus	2.28	J	0.554	9.90	mg/kg	99		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	94		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	99		87-110		
Strontium	0.0614	U	0.0614	0.495	mg/kg	97		86-110		
Tin	1.46	J	0.990	9.90	mg/kg	93		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	99		80-120		
Batch number: 111295711001	Sample number(s): 6278711-6278715									
Mercury	0.0027	U	0.0027	0.0948	mg/kg	97		88-123		
Batch number: 111371026001A	Sample number(s): 6278712									
Copper	0.0827	J	0.0660	0.400	mg/kg	98		83-110		
Batch number: 111375708002	Sample number(s): 6278711-6278715									
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Batch number: 11130621201A	Sample number(s): 6278711-6278715									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11131102201B	Sample number(s): 6278711-6278715									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11137621202A	Sample number(s): 6278711-6278715									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11139243201A	Sample number(s): 6278711-6278715									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11136039401A	Sample number(s): 6278711-6278715									
18a pH by 9045C						100		95-105		
Batch number: 11136182101A	Sample number(s): 6278711-6278715									
32a OR Potential						99		98-102		
Batch number: 11145162401B	Sample number(s): 6278711-6278715									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111311AA	Sample number(s): 6278711-6278715 UNSPK: P281100								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acetone	101	97	15-210	10	30				
Benzene	113	114	55-143	15	30				
Bromobenzene	109	114	43-139	19	30				
Bromochloromethane	121	116	60-137	11	30				
Bromodichloromethane	97	97	53-136	15	30				
Bromoform	87	86	38-124	13	30				
Bromomethane	90	83	42-168	6	30				
2-Butanone	85	85	37-163	14	30				
n-Butylbenzene	114	112	30-146	13	30				
sec-Butylbenzene	125	129	33-157	18	30				
tert-Butylbenzene	111	117	41-152	20	30				
Carbon Tetrachloride	109	110	45-153	16	30				
Chlorobenzene	106	105	49-135	14	30				
Chloroethane	92	84	39-152	5	30				
2-Chloroethyl Vinyl Ether	83	83	32-139	14	30				
Chloroform	107	107	61-142	15	30				
Chloromethane	104	106	51-163	17	30				
2-Chlorotoluene	114	118	42-146	18	30				
4-Chlorotoluene	109	110	39-145	16	30				
1,2-Dibromo-3-chloropropane	85	89	30-139	20	30				
Dibromochloromethane	99	99	51-128	15	30				
1,2-Dibromoethane	97	99	54-129	17	30				
Dibromomethane	95	96	57-130	16	30				
1,2-Dichlorobenzene	97	98	36-133	15	30				
1,3-Dichlorobenzene	104	104	34-134	15	30				
1,4-Dichlorobenzene	101	103	35-136	17	30				
Dichlorodifluoromethane	87	89	26-151	17	30				
1,1-Dichloroethane	114	115	63-142	16	30				
1,2-Dichloroethane	100	101	68-131	16	30				
1,1-Dichloroethene	115	107	61-149	8	30				
cis-1,2-Dichloroethene	106	108	60-136	16	30				
trans-1,2-Dichloroethene	125	119	59-142	10	30				
1,2-Dichloropropane	111	112	62-135	15	30				
1,3-Dichloropropane	105	106	58-129	16	30				
2,2-Dichloropropane	98	101	53-147	18	30				
1,1-Dichloropropene	111	113	54-145	16	30				
cis-1,3-Dichloropropene	94	95	51-131	15	30				
trans-1,3-Dichloropropene	91	94	49-129	17	30				
Ethylbenzene	106	107	44-141	15	30				
Freon 113	127	120	56-156	9	30				
Hexachlorobutadiene	94	91	10-155	11	30				
2-Hexanone	86	88	32-160	18	30				
Isopropylbenzene	106	108	38-144	16	30				
p-Isopropyltoluene	118	120	29-152	16	30				
Methyl Tertiary Butyl Ether	97	98	55-129	16	30				
4-Methyl-2-pentanone	86	87	46-139	16	30				
Methylene Chloride	156*	37*	61-141	44*	30				
n-Propylbenzene	126	127	39-157	15	30				
Styrene	94	91	35-134	11	30				
1,1,1,2-Tetrachloroethane	101	105	52-130	18	30				
1,1,2,2-Tetrachloroethane	107	112	40-152	19	30				
Tetrachloroethene	117	116	42-149	14	30				
Toluene	111	114	50-146	17	30				

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Quality Control Summary

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Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	67	66	10-140	12	30				
1,2,4-Trichlorobenzene	67	66	10-136	12	30				
1,1,1-Trichloroethane	106	109	64-142	17	30				
1,1,2-Trichloroethane	103	104	54-139	15	30				
Trichloroethene	55	128	53-144	50*	30				
Trichlorofluoromethane	102	101	47-163	13	30				
1,2,3-Trichloropropane	108	113	45-154	19	30				
1,2,4-Trimethylbenzene	112	116	37-149	17	30				
1,3,5-Trimethylbenzene	118	123	38-150	18	30				
Vinyl Chloride	103	107	50-154	18	30				
m+p-Xylene	107	108	44-137	15	30				
o-Xylene	101	101	42-137	15	30				
Batch number: E111301AA	Sample number(s): 6278711-6278715 UNSPK: P275761								
1,4-Dioxane	91	91	70-130	6	30				
Batch number: 11127SLA026	Sample number(s): 6278711-6278715 UNSPK: 6278711								
Aniline	82	83	35-95	1	30				
Anthracene	97	96	75-115	1	30				
Benzidine	29*	34*	35-141	17	30				
Benzoic acid	63	64	10-173	2	30				
Benzyl alcohol	100	100	67-115	0	30				
4-Bromophenyl-phenylether	96	98	67-129	2	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	96	98	76-110	1	30				
4-Chloroaniline	42	42	23-95	1	30				
bis(2-Chloroethoxy)methane	97	97	75-104	1	30				
bis(2-Chloroethyl)ether	96	96	60-116	0	30				
bis(2-Chloroisopropyl)ether	90	93	55-142	3	30				
2-Chloronaphthalene	70	72	50-141	2	30				
2-Chlorophenol	98	101	73-121	3	30				
4-Chlorophenyl-phenylether	91	96	80-109	5	30				
Chrysene	96	98	62-128	2	30				
Dibenzofuran	93	98	71-112	5	30				
1,2-Dichlorobenzene	78	87	66-108	10	30				
1,3-Dichlorobenzene	75	81	63-109	7	30				
1,4-Dichlorobenzene	76	83	70-100	8	30				
3,3'-Dichlorobenzidine	73	77	16-119	4	30				
2,4-Dichlorophenol	92	96	78-117	4	30				
2,4-Dimethylphenol	98	100	78-110	1	30				
3,5-Dimethylphenol	103	104	70-130	1	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	70	67	20-143	3	30				
2,4-Dinitrotoluene	92	97	73-113	5	30				
2,6-Dinitrotoluene	94	97	69-123	3	30				
1,2-Diphenylhydrazine	109	108	71-129	0	30				
bis(2-Ethylhexyl)phthalate	97	100	63-122	3	30				
Hexachlorobenzene	97	99	77-114	2	30				
Hexachlorobutadiene	83	89	62-120	7	30				
Hexachlorocyclopentadiene	60	56	10-153	7	30				
Hexachloroethane	74	82	57-109	10	30				
Isophorone	95	95	73-102	0	30				
2-Methylphenol	100	100	75-111	1	30				

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Quality Control Summary

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Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Methylphenol	96	97	71-111	2	30				
2-Nitroaniline	94	101	67-125	7	30				
3-Nitroaniline	91	94	59-122	4	30				
4-Nitroaniline	74	75	52-112	2	30				
Nitrobenzene	94	97	72-106	3	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	83	84	54-113	1	30				
N-Nitroso-di-n-propylamine	98	98	60-116	1	30				
N-Nitrosodiphenylamine	101	102	86-145	1	30				
Di-n-octylphthalate	111	117	56-126	5	30				
Pentachlorophenol	71	71	28-127	0	30				
Phenanthrene	96	95	65-125	0	30				
Phenol	97	96	58-126	1	30				
1,2,4-Trichlorobenzene	87	91	72-115	4	30				
2,4,5-Trichlorophenol	95	97	78-109	3	30				
2,4,6-Trichlorophenol	93	100	77-115	7	30				
Batch number: 11127SLC026	Sample number(s): 6278711-6278715 UNSPK: 6278711								
N-Nitrosodimethylamine	45*	55*	70-130	21	30				
Batch number: 11129SLB026	Sample number(s): 6278711-6278715 UNSPK: 6278711								
Acenaphthene	89	88	63-105	1	30				
Acenaphthylene	94	93	67-114	0	30				
Anthracene	99	99	60-122	1	30				
Benzo(a)anthracene	99	99	59-128	1	30				
Benzo(a)pyrene	99	101	45-138	2	30				
Benzo(b)fluoranthene	96	105	43-155	9	30				
Benzo(g,h,i)perylene	92	89	33-141	4	30				
Benzo(k)fluoranthene	99	91	42-144	8	30				
Butylbenzylphthalate	122	124	57-173	2	30				
Di-n-butylphthalate	112	115	65-148	3	30				
Chrysene	94	94	48-134	0	30				
Dibenz(a,h)anthracene	98	96	22-133	1	30				
Diethylphthalate	99	100	70-136	1	30				
Dimethylphthalate	102	101	74-118	1	30				
Fluoranthene	99	100	26-166	2	30				
Fluorene	99	98	66-122	0	30				
Indeno(1,2,3-cd)pyrene	95	93	21-143	1	30				
1-Methylnaphthalene	91	89	72-123	1	30				
2-Methylnaphthalene	82	81	64-103	1	30				
Naphthalene	87	85	61-102	2	30				
N-Nitrosodimethylamine	91	89	48-113	2	30				
Di-n-octylphthalate	82	91	40-192	8	30				
Phenanthrene	92	92	12-165	1	30				
Pyrene	94	94	15-153	0	30				
Batch number: 111300004A	Sample number(s): 6278711-6278715 UNSPK: P273941								
4-Amino-2,6-Dinitrotoluene	107	109	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	106	106	80-137	0	50				
1,3-Dinitrobenzene	105	106	38-166	1	50				
2,4-Dinitrotoluene	101	101	80-131	0	50				
2,6-Dinitrotoluene	103	104	80-127	2	50				
HMX	92	92	63-128	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	96	98	80-125	2	50				
Nitroglycerin	94	95	80-120	0	50				
2-Nitrotoluene	98	98	80-122	0	50				
3-Nitrotoluene	101	101	72-119	0	50				
4-Nitrotoluene	97	97	80-125	0	50				
PETN	120	122*	80-121	1	50				
RDX	94	95	75-129	1	50				
Tetryl	91	88	55-174	3	50				
1,3,5-Trinitrobenzene	100	101	82-126	1	50				
2,4,6-Trinitrotoluene	106	106	82-130	1	50				
Batch number: 111300003A	Sample number(s): 6278711-6278715 UNSPK: P277627								
25a Formaldehyde 8315A	103	101	80-120	2	50				
Batch number: 111300023A	Sample number(s): 6278711,6278714 UNSPK: P273942								
6a Perchlorate EPA 6850	98	104	80-120	6	20				
Batch number: 111380029A	Sample number(s): 6278711-6278715 UNSPK: P277627								
PCB-1016	95	69	29-146	33	50				
PCB-1260	102	75	39-149	30	50				
Batch number: 111290020A	Sample number(s): 6278711-6278715 UNSPK: P277627								
EFH (C12-C14)	82	93	49-123	12	20				
EFH (C15-C20)	73	92	49-123	16	20				
EFH (C21-C30)	83	89	49-123	4	20				
EFH (C30 - C40)	55	69	49-123	9	20				
EFH (C8-C11)	62	71	49-123	14	20				
Batch number: 111260011A	Sample number(s): 6278711-6278715 UNSPK: P277627								
Diethylene glycol	36*	40*	59-109	11	20				
Ethylene glycol	54*	58*	63-107	7	20				
Propylene glycol	60*	63	63-107	5	20				
Batch number: 111300036A	Sample number(s): 6278711-6278715 UNSPK: P281100								
Ethanol	74	72	48-130	3	20				
Isopropanol	75	74	12-149	2	20				
Methanol	73	71	43-138	4	20				
Batch number: 111270006A	Sample number(s): 6278711-6278715 UNSPK: P275767								
m-Terphenyl	82	82	75-125	1	20				
o-Terphenyl	95	95	75-125	1	20				
p-Terphenyl	88	89	75-125	1	20				
Batch number: 111291026001A	Sample number(s): 6278711-6278715 UNSPK: 6278711 BKG: 6278711								
Antimony	23*	2*	75-125	45*	20	0.383	0.0979 J	119* (1)	20
Arsenic	-65 (2)	-34 (2)	75-125	7	20	9.24	3.92	81*	20
Beryllium	113	113	75-125	0	20	0.933	0.580	47*	20
Cadmium	125	132*	75-125	3	20	0.430	0.233	59* (1)	20
Chromium	155*	170*	75-125	3	20	22.9	18.1	24*	20
Cobalt	133*	144*	75-125	6	20	11.1	7.69	37*	20
Copper	137*	158*	75-125	6	20	15.3	11.2	30*	20
Lead	-118 (2)	-97 (2)	75-125	5	20	16.1	6.02	91*	20

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Quality Control Summary

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Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	107	133*	75-125	7	20	20.7	13.1	45*	20
Silver	129*	132*	75-125	1	20	0.0351 J	0.0248 J	34* (1)	20
Thallium	173*	159*	75-125	7	20	0.259	0.240	8 (1)	20
Vanadium	4 (2)	55 (2)	75-125	8	20	61.7	33.6	59*	20
Zinc	42 (2)	127 (2)	75-125	12	20	59.3	40.9	37*	20
Batch number: 111291026001B	Sample number(s): 6278711-6278715 UNSPK: 6278711 BKG: 6278711								
Selenium	115	113	75-125	2	20	0.251 J	0.199 J	23* (1)	20
Batch number: 111291026001C	Sample number(s): 6278711-6278715 UNSPK: 6278711 BKG: 6278711								
Molybdenum	111	117	75-125	4	20	1.22	0.474	88* (1)	20
Batch number: 111291026001D	Sample number(s): 6278711-6278715 UNSPK: 6278711 BKG: 6278711								
Barium	252 (2)	318 (2)	75-125	4	20	124	96.6	25*	20
Batch number: 111295708001	Sample number(s): 6278711-6278715 UNSPK: P277627 BKG: P277627								
Aluminum	2053 (2)	2307 (2)	75-125	1	20	23,800	22,800	4	20
Boron	90	89	84-115	5	20	7.67	7.10	8 (1)	20
Calcium	110 (2)	70 (2)	75-125	3	20	5,740	5,560	3	20
Iron	4092 (2)	320 (2)	75-125	13	20	27,000	27,600	2	20
Lithium	97	97	82-114	3	20	20.7	20.1	3	20
Magnesium	266 (2)	250 (2)	75-125	1	20	5,970	5,850	2	20
Manganese	118 (2)	61 (2)	75-125	8	20	350	356	2	20
Phosphorus	88	83	75-125	3	20	236	221	7	20
Potassium	115	135*	75-125	3	20	3,300	3,130	5	20
Sodium	95	94	75-125	4	20	230	233	2 (1)	20
Strontium	95	95	75-115	4	20	26.2	25.3	4	20
Tin	83	82	80-110	5	20	2.22 J	2.32 J	4 (1)	20
Zirconium	91	91	75-125	4	20	1.76 J	2.45 J	33* (1)	20
Batch number: 111295711001	Sample number(s): 6278711-6278715 UNSPK: P279801 BKG: P279801								
Mercury	91	84	65-135	7	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 111371026001A	Sample number(s): 6278712 UNSPK: P288929 BKG: P288929								
Copper	122	117	75-125	1	20	9.75	6.87	35*	20
Batch number: 111375708002	Sample number(s): 6278711-6278715 UNSPK: P288929 BKG: P288929								
Titanium	249 (2)	243 (2)	75-125	0	20	1,270	1,200	6	20
Batch number: 11130621201A	Sample number(s): 6278711-6278715 UNSPK: P277627 BKG: P277627								
7a Perchlorate EPA 314.0	117		80-120			170	174	3	15
Batch number: 11131102201B	Sample number(s): 6278711-6278715 UNSPK: P277629 BKG: P277629								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11137621202A	Sample number(s): 6278711-6278715 UNSPK: 6278711 BKG: 6278711								
11a Anions by 300.0 - Fluoride	44*		80-120			2.1	1.4	45* (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			2.4	1.7	37* (1)	20
Batch number: 11139243201A	Sample number(s): 6278711-6278715 UNSPK: P275761 BKG: P275761								
3a Cr VI by EPA 7199	79		75-125			0.71 J	0.42 J	51* (1)	20

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Quality Control Summary

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Reported: 05/26/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11136039401A	Sample number(s): 6278711-6278715					BKG: 6278712			
18a pH by 9045C						8.15	8.11	0	3
Batch number: 11136182101A	Sample number(s): 6278711-6278715					BKG: 6278712			
32a OR Potential						437	449	3	6
Batch number: 11145162401B	Sample number(s): 6278711-6278715					BKG: P275767			
Moisture Content by 160.3						13.4	13.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6278711	103	115	101	93
6278712	99	102	101	92
6278713	100	102	104	89
6278714	100	102	103	90
6278715	102	107	100	92
Blank	99	102	102	91
LCS	99	107	105	99
LCSD	100	107	105	99
MS	98	99	111	95
MSD	97	102	113	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111291AA

	Toluene-d8
6278716	109
Blank	107
LCS	108
LCSD	108
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111301AA

	Toluene-d8
6278711	100
6278712	100
6278713	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

6278714	100
6278715	100
Blank	99
LCS	99
LCSD	99
MS	99
MSD	99
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6278716	106	101	97	99
Blank	104	102	98	99
LCS	106	102	99	101
LCSD	106	101	98	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11127SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6278711	104	99	86	91	93	87
6278712	97	96	80	89	88	86
6278713	96	93	79	86	86	89
6278714	91	89	74	86	88	85
6278715	87	86	70	84	83	80
Blank	95	95	94	91	90	90
LCS	100	97	91	92	90	88
MS	104	100	83	93	93	88
MSD	101	99	88	94	96	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11127SLC026

	N-Nitrosodimethylamine-d6
6278711	144
6278712	113
6278713	151*
6278714	114
6278715	114
Blank	88
LCS	103
MS	147
MSD	144
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11129SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

6278711	97	90	94
6278712	103	92	95
6278713	99	90	92
6278714	96	86	93
6278715	95	87	90
Blank	92	94	105
LCS	94	85	91
MS	113	96	99
MSD	109	93	98
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11126A34A

	Trifluorotoluene-F
6278711	78
6278712	79
6278713	79
6278714	79
6278715	78
Blank	83
LCS	88
LCSD	88
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11131A20A

	Trifluorotoluene-F
6278716	73
Blank	64
LCS	116
LCSD	116
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111300003A

	Butyraldehyde
6278711	96
6278712	90
6278713	87
6278714	81
6278715	86
Blank	98
LCS	94
MS	92
MSD	92
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111300004A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6278711	146
6278712	122
6278713	108
6278714	109
6278715	122
Blank	123
LCS	149*
LCSD	108
MS	168*
MSD	152*
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111380029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6278711	79	84
6278712	97	89
6278713	91	79
6278714	91	92
6278715	95	81
Blank	95	96
LCS	100	95
LCSD	99	95
MS	99	87
MSD	69	67
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111260011A

	Tetramethylene glycol
6278711	72
6278712	82
6278713	78
6278714	79
6278715	83
Blank	88
LCS	101
MS	82
MSD	84
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111270006A

	n-Triacontane-d62
6278711	84
6278712	83
6278713	74
6278714	75
6278715	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245555
Reported: 05/26/11 at 01:53 PM

Surrogate Quality Control

Blank	84	
LCS	81	
MS	77	
MSD	78	
Limits:	50-150	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111290020A

	Chlorobenzene	Orthoterphenyl
6278711	77	95
6278712	78	99
6278713	67	91
6278714	71	100
6278715	71	89
Blank	76	97
LCS	82	107
MS	70	94
MSD	77	99
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111300036A

	Acetone
6278711	82
6278712	90
6278713	80
6278714	88
6278715	87
Blank	100
LCS	97
MS	78
MSD	77
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1245555 Sample# 6278711-16

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-056-SA8N-SB-4.5	05.05.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-056-SA8N-SB-4.0-5.0	05.05.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-056-SA8N-SB-7.5	05.05.11	0940	SOIL	NONE	5-Encores										X	X	X										
SL-056-SA8N-SB-7.0-8.0	05.05.11	0945	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SB-4.5	05.05.11	0845	SOIL	NONE	5-Encores										X	X	X										
SL-057-SA8N-SB-4.0-5.0	05.05.11	0850	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SB-7.5	05.05.11	0855	SOIL	NONE	5 -Encores										X	X	X										
SL-057-SA8N-SB-7.0-8.0	05.05.11	0900	SOIL	NONE	4 -16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-062-SA8N-SB-4.5	05.05.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-062-SA8N-SB-4.0-5.0	05.05.11	1155	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-050511	05.05.11	0800	WATER	NONE	4-40 mL vials										X	X	X										
Relinquished by: (Signature)	Date/Time 5/05/2011 1700		Received for Laboratory by: (Signature) 5/6/11 940																							Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1442 0865																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/06/2011
Group Number: 1245557
SDG: DX079
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-056-SA8N-SB-4.0-5.0 Soil	6278718
SL-056-SA8N-SB-7.0-8.0 Soil	6278719
SL-057-SA8N-SB-4.0-5.0 Soil	6278720
SL-057-SA8N-SB-7.0-8.0 Soil	6278721
SL-062-SA8N-SB-4.0-5.0 Soil	6278722

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278718
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8001 SDG#: DX079-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278718
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8001 SDG#: DX079-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0222	U	0.0222	1.14	1
11031	12378-PeCDD	40321-76-4	0.0647	JQ	0.0378	5.71	1
11031	123478-HxCDD	39227-28-6	0.0266	U	0.0266	5.71	1
11031	123678-HxCDD	57653-85-7	0.209	JB	0.0284	5.71	1
11031	123789-HxCDD	19408-74-3	0.395	JQ	0.0279	5.71	1
11031	1234678-HpCDD	35822-46-9	0.527	JB	0.0337	5.71	1
11031	OCDD	3268-87-9	2.06	JB	0.0603	11.4	1
11031	2378-TCDF	51207-31-9	0.0331	U	0.0331	1.14	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0200	5.71	1
11031	23478-PeCDF	57117-31-4	0.188	JBQ	0.0200	5.71	1
11031	123478-HxCDF	70648-26-9	0.124	JB	0.0292	5.71	1
11031	123678-HxCDF	57117-44-9	0.107	JBQ	0.0261	5.71	1
11031	123789-HxCDF	72918-21-9	0.437	JB	0.0276	5.71	1
11031	234678-HxCDF	60851-34-5	0.246	JB	0.0251	5.71	1
11031	1234678-HpCDF	67562-39-4	0.695	JB	0.0269	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0889	JB	0.0404	5.71	1
11031	OCDF	39001-02-0	0.698	JB	0.0404	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278718
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8001 SDG#: DX079-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-4.0-5.0

LLI Sample # SW 6278718
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:35

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8001 SDG#: DX079-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 19:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278719
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8002 SDG#: DX079-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278719
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8002 SDG#: DX079-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0268	U	0.0268	1.06	1
11031	12378-PeCDD	40321-76-4	0.0348	J	0.0245	5.32	1
11031	123478-HxCDD	39227-28-6	0.0351	JBQ	0.0189	5.32	1
11031	123678-HxCDD	57653-85-7	0.0609	JB	0.0204	5.32	1
11031	123789-HxCDD	19408-74-3	0.0394	JQ	0.0189	5.32	1
11031	1234678-HpCDD	35822-46-9	0.307	JB	0.0235	5.32	1
11031	OCDD	3268-87-9	0.642	JB	0.0381	10.6	1
11031	2378-TCDF	51207-31-9	0.0222	U	0.0222	1.06	1
11031	12378-PeCDF	57117-41-6	0.0951	JB	0.0153	5.32	1
11031	23478-PeCDF	57117-31-4	0.133	JB	0.0149	5.32	1
11031	123478-HxCDF	70648-26-9	0.131	JB	0.0237	5.32	1
11031	123678-HxCDF	57117-44-9	0.129	JB	0.0198	5.32	1
11031	123789-HxCDF	72918-21-9	0.110	JB	0.0232	5.32	1
11031	234678-HxCDF	60851-34-5	0.241	JB	0.0200	5.32	1
11031	1234678-HpCDF	67562-39-4	0.577	JB	0.0173	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0781	JB	0.0265	5.32	1
11031	OCDF	39001-02-0	0.409	JBQ	0.0305	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	62	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278719
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8002 SDG#: DX079-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA8N-SB-7.0-8.0

LLI Sample # SW 6278719
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:45

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8002 SDG#: DX079-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 20:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278720
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8003 SDG#: DX079-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278720
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8003 SDG#: DX079-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0423	J	0.0218	1.15	1
11031	12378-PeCDD	40321-76-4	0.168	J	0.0269	5.77	1
11031	123478-HxCDD	39227-28-6	0.0262	JBQ	0.0205	5.77	1
11031	123678-HxCDD	57653-85-7	0.0588	JB	0.0216	5.77	1
11031	123789-HxCDD	19408-74-3	0.0589	JQ	0.0209	5.77	1
11031	1234678-HpCDD	35822-46-9	0.393	JB	0.0265	5.77	1
11031	OCDD	3268-87-9	1.51	JB	0.0407	11.5	1
11031	2378-TCDF	51207-31-9	0.0317	U	0.0317	1.15	1
11031	12378-PeCDF	57117-41-6	0.254	JB	0.0197	5.77	1
11031	23478-PeCDF	57117-31-4	0.263	JB	0.0183	5.77	1
11031	123478-HxCDF	70648-26-9	0.191	JB	0.0252	5.77	1
11031	123678-HxCDF	57117-44-9	0.181	JB	0.0234	5.77	1
11031	123789-HxCDF	72918-21-9	0.0950	JBQ	0.0277	5.77	1
11031	234678-HxCDF	60851-34-5	0.266	JBQ	0.0240	5.77	1
11031	1234678-HpCDF	67562-39-4	0.681	JB	0.0273	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0987	JB	0.0435	5.77	1
11031	OCDF	39001-02-0	0.471	JB	0.0432	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278720
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8003 SDG#: DX079-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-4.0-5.0

LLI Sample # SW 6278720
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 08:50

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8003 SDG#: DX079-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 21:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

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Analysis Report

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278721
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8004 SDG#: DX079-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278721
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8004 SDG#: DX079-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0501	J	0.0253	1.09	1
11031	12378-PeCDD	40321-76-4	0.131	J	0.0275	5.44	1
11031	123478-HxCDD	39227-28-6	0.0197	U	0.0197	5.44	1
11031	123678-HxCDD	57653-85-7	0.0616	JB	0.0205	5.44	1
11031	123789-HxCDD	19408-74-3	0.0355	JQ	0.0195	5.44	1
11031	1234678-HpCDD	35822-46-9	0.331	JB	0.0281	5.44	1
11031	OCDD	3268-87-9	0.890	JB	0.0556	10.9	1
11031	2378-TCDF	51207-31-9	0.0728	JQ	0.0240	1.09	1
11031	12378-PeCDF	57117-41-6	0.231	JB	0.0187	5.44	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0189	5.44	1
11031	123478-HxCDF	70648-26-9	0.203	JB	0.0253	5.44	1
11031	123678-HxCDF	57117-44-9	0.141	JBQ	0.0217	5.44	1
11031	123789-HxCDF	72918-21-9	0.0884	JB	0.0286	5.44	1
11031	234678-HxCDF	60851-34-5	0.236	JB	0.0239	5.44	1
11031	1234678-HpCDF	67562-39-4	0.619	JB	0.0215	5.44	1
11031	1234789-HpCDF	55673-89-7	0.121	JB	0.0350	5.44	1
11031	OCDF	39001-02-0	0.509	JB	0.0369	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278721
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8004 SDG#: DX079-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA8N-SB-7.0-8.0

LLI Sample # SW 6278721
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 09:00

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8004 SDG#: DX079-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 22:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278722
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8005 SDG#: DX079-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278722
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8005 SDG#: DX079-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0395	JQ	0.0244	1.15	1
11031	12378-PeCDD	40321-76-4	0.0525	J	0.0336	5.74	1
11031	123478-HxCDD	39227-28-6	0.0456	JBQ	0.0208	5.74	1
11031	123678-HxCDD	57653-85-7	0.0384	JBQ	0.0221	5.74	1
11031	123789-HxCDD	19408-74-3	0.0610	JQ	0.0214	5.74	1
11031	1234678-HpCDD	35822-46-9	0.600	JB	0.0315	5.74	1
11031	OCDD	3268-87-9	3.94	JB	0.0642	11.5	1
11031	2378-TCDF	51207-31-9	0.0749	U	0.0749	1.15	1
11031	12378-PeCDF	57117-41-6	0.148	JBQ	0.0436	5.74	1
11031	23478-PeCDF	57117-31-4	0.249	JB	0.0433	5.74	1
11031	123478-HxCDF	70648-26-9	0.390	JBQ	0.0300	5.74	1
11031	123678-HxCDF	57117-44-9	0.112	JB	0.0256	5.74	1
11031	123789-HxCDF	72918-21-9	0.0310	U	0.0310	5.74	1
11031	234678-HxCDF	60851-34-5	0.262	JBQ	0.0264	5.74	1
11031	1234678-HpCDF	67562-39-4	0.685	JB	0.0196	5.74	1
11031	1234789-HpCDF	55673-89-7	0.112	JBQ	0.0304	5.74	1
11031	OCDF	39001-02-0	0.718	JBQ	0.0383	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SB-4.0-5.0

LLI Sample # SW 6278722
LLI Group # 1245557
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/05/2011 11:55

Submitted: 05/06/2011 09:40
Reported: 05/27/2011 08:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8005 SDG#: DX079-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8005 SDG#: DX079-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/14/2011 23:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11145162401B	05/25/2011 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245557
Reported: 05/27/11 at 08:38 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11145162401B	Sample number(s): 6278718-6278722								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11130001	Sample number(s): 6278718-6278722								
2378-TCDD	0.0281 U	0.0281	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0266 U	0.0266	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0476 J	0.0247	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0438 J	0.0263	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0248 U	0.0248	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.222 J	0.0426	5.00	ng/kg	88		70-140		
OCDD	0.374 J	0.0430	10.0	ng/kg	91		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0464 J	0.0168	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0806 J	0.0170	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0433 J	0.0238	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0492 J	0.0204	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0800 J	0.0211	5.00	ng/kg	89		78-130		
234678-HxCDF	0.112 J	0.0182	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.188 J	0.0202	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0898 J	0.0333	5.00	ng/kg	88		78-138		
OCDF	0.189 J	0.0454	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11145162401B	Sample number(s): 6278718-6278722 BKG: P275767								
Moisture Content by 160.3						13.4	13.3	1	20
Batch number: 11130001	Sample number(s): 6278718-6278722 UNSPK: P275773								
2378-TCDD	91	93	67-158	3	25				
12378-PeCDD	95	94	70-142	0	25				
123478-HxCDD	94	96	70-164	2	25				
123678-HxCDD	95	95	76-134	0	25				
123789-HxCDD	94	94	64-162	0	25				
1234678-HpCDD	93	93	70-140	0	25				
OCDD	94	95	78-144	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245557
Reported: 05/27/11 at 08:38 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	106	104	75-158	1	25				
12378-PeCDF	98	98	80-134	1	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	101	97	72-134	3	25				
123678-HxCDF	98	96	84-130	1	25				
123789-HxCDF	95	94	78-130	0	25				
234678-HxCDF	101	98	70-156	3	25				
1234678-HpCDF	91	94	82-122	3	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDF	98	97	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11130001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6278718	72	73	67	73	74	75
6278719	58	65	61	69	70	68
6278720	83	87	82	89	86	84
6278721	73	70	69	78	73	68
6278722	76	74	66	76	75	71
Blank	62	63	51	57	63	60
MS	64	70	22	26	71	68
MSD	44	38	26	32	37	43
OPR	47	43	28	32	41	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6278718	76	61	52	73	76	77
6278719	82	64	58	62	70	72
6278720	98	69	59	87	90	89
6278721	89	64	58	76	78	79
6278722	91	67	60	77	81	83
Blank	73	51	44	77	68	68
MS	43	64	55	72	75	68
MSD	40	37	32	46	46	41
OPR	43	39	31	50	52	48
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6278718	75	76	70	66	69	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245557
Reported: 05/27/11 at 08:38 AM

Surrogate Quality Control

6278719	71	72	70	68	54	68
6278720	87	88	83	78	78	90
6278721	78	77	75	72	68	80
6278722	79	81	78	75	70	82
Blank	68	68	67	63	58	66
MS	67	74	73	69	61	76
MSD	41	44	40	36	37	49
OPR	48	51	49	43	41	51
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1245557 Sample# 6278718-22

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature]

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020BA/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8350 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-056-SA8N-SB-4.5	05.05.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-056-SA8N-SB-4.0-5.0	05.05.11	0935	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-056-SA8N-SB-7.5	05.05.11	0940	SOIL	NONE	5-Encores										X	X	X										
SL-056-SA8N-SB-7.0-8.0	05.05.11	0945	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SB-4.5	05.05.11	0845	SOIL	NONE	5-Encores										X	X	X										
SL-057-SA8N-SB-4.0-5.0	05.05.11	0850	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-057-SA8N-SB-7.5	05.05.11	0855	SOIL	NONE	5 -Encores										X	X	X										
SL-057-SA8N-SB-7.0-8.0	05.05.11	0900	SOIL	NONE	4 -16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-062-SA8N-SB-4.5	05.05.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-062-SA8N-SB-4.0-5.0	05.05.11	1155	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-050511	05.05.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/05/2011 1700	[signature] 5/6/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0865	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/07/2011
Group Number: 1245724
SDG: DE145
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-086-SA8N-SB-6.5-7.5 Soil	6279801
TB-050611 Water	6279802

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-1 SDG#: DE145-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6	0.98
06192	Benzene	71-43-2	0.11	J	0.11	4.3	0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3	0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.98
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6	0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3	0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3	0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3	0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3	0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3	0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3	0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.98
06192	Ethylbenzene	100-41-4	0.46	J	0.06	4.3	0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6	0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3	0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6	0.98
06192	Methylene Chloride	75-09-2	6.9		0.26	4.3	0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3	0.98

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-1 SDG#: DE145-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3	0.98
06192	Toluene	108-88-3	1.5	J	0.09	4.3	0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3	0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.98
06192	Trichloroethene	79-01-6	0.26	J	0.16	4.3	0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3	0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.57	J	0.43	4.3	0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.36	J	0.11	4.3	0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3	0.98
06192	m+p-Xylene	179601-23-1	1.6	J	0.18	4.3	0.98
06192	o-Xylene	95-47-6	0.49	J	0.18	4.3	0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	23.41
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-1 SDG#: DE145-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 17 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1

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Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-1 SDG#: DE145-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.52	22.0	1
07914	Boron	7440-42-8	12.0		0.977	5.49	1
01650	Calcium	7440-70-2	69,700		33.6	110	5
01654	Iron	7439-89-6	28,500		5.17	22.0	1
01656	Lithium	7439-93-2	28.9		0.24	2.2	1
01657	Magnesium	7439-95-4	7,570		2.79	11.0	1
06958	Manganese	7439-96-5	343		0.0856	0.549	1
10145	Phosphorus	7723-14-0	550		0.615	11.0	1
01662	Potassium	7440-09-7	5,020		19.8	54.9	1
01667	Sodium	7440-23-5	200		40.9	110	1
07968	Strontium	7440-24-6	114		0.0681	0.549	1
06969	Tin	7440-31-5	2.20	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,380		0.405	1.07	1
10146	Zirconium	7440-67-7	2.00	J	0.922	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0924	J	0.0639	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.18		0.0853	0.426	2
06126	Barium	7440-39-3	157		0.115	0.426	2
06127	Beryllium	7440-41-7	1.01		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.387		0.0426	0.107	2
06131	Chromium	7440-47-3	38.6		0.128	0.426	2
06132	Cobalt	7440-48-4	14.5		0.0213	0.107	2
06133	Copper	7440-50-8	23.5		0.0703	0.426	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

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Suite 210
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145-1 SDG#: DE145-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.4		0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.249		0.0533	0.107	2
06139	Nickel	7440-02-0	27.7		0.107	0.426	2
06141	Selenium	7782-49-2	0.333	J	0.0426	0.426	2
06142	Silver	7440-22-4	0.0452	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.449		0.0320	0.107	2
06148	Vanadium	7440-62-2	85.1		0.0234	0.107	2
06149	Zinc	7440-66-6	95.1		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	410		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.22		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA8N-SB-7.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

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Suite 210
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145-1 SDG#: DE145-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 09:18	Angela D Sneeringer	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111301AA	05/10/2011 17:28	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201112724344	05/07/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201112724344	05/07/2011 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201112724344	05/07/2011 15:17	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201112724344	05/07/2011 15:15	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11127SLA026	05/11/2011 02:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11129SLB026	05/18/2011 15:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11129SLB026	05/10/2011 10:10	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11127SLA026	05/09/2011 09:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 04:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111295708001	05/11/2011 18:16	John P Hook	5
01654	Iron	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111295708001	05/10/2011 11:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111291026001D	05/11/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111291026001C	05/13/2011 08:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111291026001B	05/11/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111291026001A	05/11/2011 12:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279801
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-1 SDG#: DE145-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111295711001	05/10/2011 05:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111295708001	05/09/2011 12:08	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111291026001	05/09/2011 12:23	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111295711001	05/09/2011 12:58	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202A	05/19/2011 00:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11130621201A	05/12/2011 01:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243201A	05/20/2011 22:23	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202A	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11130621201A	05/10/2011 09:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243201A	05/19/2011 12:15	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-050611 Water
SSFL Area IV Collocated Soil Sampling
TB-050611

LLI Sample # WW 6279802
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 08:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-2 SDG#: DE145-02TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-050611 Water
SSFL Area IV Collocated Soil Sampling
TB-050611

LLI Sample # WW 6279802
LLI Group # 1245724
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 08:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 16:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

145-2 SDG#: DE145-02TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111322AA	05/12/2011 12:53	Kerri E Legerlotz	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111302AA	05/10/2011 21:18	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111302AA	05/10/2011 21:18	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111322AA	05/12/2011 12:53	Kerri E Legerlotz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111311AA	Sample number(s): 6279801									
Acetone	6.7	U	6.7	8.0	ug/kg	104	110	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	110	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	101	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*	128*	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	94	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	87	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	100	102	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105	97	72-120	9	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111	104	75-120	6	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	96	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	103	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101	101	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	90	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	99	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	104	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	96	95	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	99	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	97	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	79	77	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	94	97	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	98	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	100	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	101	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	98	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102	100	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	77	77	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107	108	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	101	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	102	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	104	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108	108	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	103	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94	96	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	105	105	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	99	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	91	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	105	109	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	91	94	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	88	57-120	15	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	98	102	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	102	75-120	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	105	108	61-134	2	30
Methylene Chloride	0.92	J	0.24	4.0	ug/kg	99	105	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	103	77-120	8	30
Styrene	0.10	U	0.10	4.0	ug/kg	92	92	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	99	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104	104	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107	107	77-120	1	30
Toluene	0.09	J	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	88	87	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	101	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	100	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	102	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	90	91	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	105	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	101	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105	103	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	93	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	101	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Batch number: E111301AA	Sample number(s): 6279801									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	111	113	70-130	2	30
Batch number: E111302AA	Sample number(s): 6279802									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	119		80-123		
Batch number: L111322AA	Sample number(s): 6279802									
Acetone	6	U	6.	20	ug/l	125	119	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	91	80-120	2	30
Bromochloromethane	1	U	1.	5	ug/l	97	94	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	96	93	80-120	3	30
Bromoform	1	U	1.	5	ug/l	84	82	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	115	112	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	99	97	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	95	96	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	90	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	90	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	97	95	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	91	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	101	99	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	91	91	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	101	96	77-122	5	30
Chloromethane	1	U	1.	5	ug/l	97	96	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	91	91	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	93	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	62	63	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	89	89	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	87	88	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	95	96	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	96	94	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	92	80-120	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	92	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	88	88	47-120	0	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	94	79-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	107	103	70-130	4	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	92	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	93	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	91	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	93	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	94	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	95	94	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	94	93	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	90	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	90	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	94	79-120	1	30
Freon 113	2	U	2.	10	ug/l	98	97	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	95	97	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	87	87	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	90	89	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	96	95	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	88	89	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	96	94	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	88	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	97	94	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	91	92	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	90	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	91	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	94	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	92	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	94	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	91	91	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	86	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	97	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	93	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	110	106	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	94	95	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	93	93	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	90	91	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	93	96	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	93	91	80-120	2	30
Batch number: 11127SLA026	Sample number(s): 6279801									
Aniline	170 U		170.	500	ug/kg	94		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	74		15-121		
Benzoic acid	170 U		170.	500	ug/kg	92		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	106		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	88		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	84		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	91		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	J	17.	330	ug/kg	103		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	75		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	100		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	104		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	102		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	85		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	100		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	92		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	101		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	77		51-117		
Phenol	17	U	17.	170	ug/kg	98		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11129SLB026	Sample number(s): 6279801									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	78		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.72	J	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	91		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	94		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	92		75-137		
Chrysene	0.37	J	0.33	1.7	ug/kg	87		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	89		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	86		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	88		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	89		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	69		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	73		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	68		55-118		
Di-n-octylphthalate	34		6.0	18	ug/kg	109		55-176		
Phenanthrene	0.83	J	0.67	1.7	ug/kg	83		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		56-121		
Batch number: 111390012A	Sample number(s): 6279801									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	87	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	105		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111291026001A	Sample number(s): 6279801									
Antimony	0.0571	U	0.0571	0.190	mg/kg	64		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	94		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	99		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	100		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	105		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		82-118		
Copper	0.503		0.0629	0.381	mg/kg	102		83-110		
Lead	0.0099	U	0.0099	0.190	mg/kg	97		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	100		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	91		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	99		83-110		
Vanadium	0.0744	J	0.0210	0.0952	mg/kg	89		84-116		
Zinc	0.738	J	0.533	2.86	mg/kg	100		81-112		
Batch number: 111291026001B	Sample number(s): 6279801									
Selenium	0.0381	U	0.0381	0.381	mg/kg	96		83-111		
Batch number: 111291026001C	Sample number(s): 6279801									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	102		78-122		
Batch number: 111291026001D	Sample number(s): 6279801									
Barium	0.103	U	0.103	0.381	mg/kg	97		81-111		
Batch number: 111295708001	Sample number(s): 6279801									
Aluminum	12.4	J	4.98	19.8	mg/kg	90		61-110		
Boron	0.881	U	0.881	4.95	mg/kg	90		78-110		
Calcium	17.6	J	6.07	19.8	mg/kg	98		88-110		
Iron	4.66	U	4.66	19.8	mg/kg	87		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	98		80-120		
Magnesium	3.88	J	2.51	9.90	mg/kg	95		82-110		
Manganese	0.0772	U	0.0772	0.495	mg/kg	97		89-112		
Phosphorus	2.28	J	0.554	9.90	mg/kg	99		80-120		
Potassium	17.8	U	17.8	49.5	mg/kg	94		78-110		
Sodium	36.9	U	36.9	99.0	mg/kg	99		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0614	U	0.0614	0.495	mg/kg	97		86-110		
Tin	1.46	J	0.990	9.90	mg/kg	93		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	99		80-120		
Batch number: 111295711001	Sample number(s): 6279801									
Mercury	0.0027	U	0.0027	0.0948	mg/kg	97		88-123		
Batch number: 111375708002	Sample number(s): 6279801									
Titanium	0.380	U	0.380	1.00	mg/kg	102		80-120		
Batch number: 11130621201A	Sample number(s): 6279801									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11137621202A	Sample number(s): 6279801									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
Batch number: 11139243201A	Sample number(s): 6279801									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11136039401B	Sample number(s): 6279801									
18a pH by 9045C						100		95-105		
Batch number: 11136182101B	Sample number(s): 6279801									
32a OR Potential						99		98-102		
Batch number: 11133162402A	Sample number(s): 6279801									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111311AA	Sample number(s): 6279801 UNSPK: P281100								
Acetone	101	97	15-210	10	30				
Benzene	113	114	55-143	15	30				
Bromobenzene	109	114	43-139	19	30				
Bromochloromethane	121	116	60-137	11	30				
Bromodichloromethane	97	97	53-136	15	30				
Bromoform	87	86	38-124	13	30				
Bromomethane	90	83	42-168	6	30				
2-Butanone	85	85	37-163	14	30				
n-Butylbenzene	114	112	30-146	13	30				
sec-Butylbenzene	125	129	33-157	18	30				
tert-Butylbenzene	111	117	41-152	20	30				
Carbon Tetrachloride	109	110	45-153	16	30				
Chlorobenzene	106	105	49-135	14	30				
Chloroethane	92	84	39-152	5	30				
2-Chloroethyl Vinyl Ether	83	83	32-139	14	30				
Chloroform	107	107	61-142	15	30				
Chloromethane	104	106	51-163	17	30				
2-Chlorotoluene	114	118	42-146	18	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorotoluene	109	110	39-145	16	30				
1,2-Dibromo-3-chloropropane	85	89	30-139	20	30				
Dibromochloromethane	99	99	51-128	15	30				
1,2-Dibromoethane	97	99	54-129	17	30				
Dibromomethane	95	96	57-130	16	30				
1,2-Dichlorobenzene	97	98	36-133	15	30				
1,3-Dichlorobenzene	104	104	34-134	15	30				
1,4-Dichlorobenzene	101	103	35-136	17	30				
Dichlorodifluoromethane	87	89	26-151	17	30				
1,1-Dichloroethane	114	115	63-142	16	30				
1,2-Dichloroethane	100	101	68-131	16	30				
1,1-Dichloroethene	115	107	61-149	8	30				
cis-1,2-Dichloroethene	106	108	60-136	16	30				
trans-1,2-Dichloroethene	125	119	59-142	10	30				
1,2-Dichloropropane	111	112	62-135	15	30				
1,3-Dichloropropane	105	106	58-129	16	30				
2,2-Dichloropropane	98	101	53-147	18	30				
1,1-Dichloropropene	111	113	54-145	16	30				
cis-1,3-Dichloropropene	94	95	51-131	15	30				
trans-1,3-Dichloropropene	91	94	49-129	17	30				
Ethylbenzene	106	107	44-141	15	30				
Freon 113	127	120	56-156	9	30				
Hexachlorobutadiene	94	91	10-155	11	30				
2-Hexanone	86	88	32-160	18	30				
Isopropylbenzene	106	108	38-144	16	30				
p-Isopropyltoluene	118	120	29-152	16	30				
Methyl Tertiary Butyl Ether	97	98	55-129	16	30				
4-Methyl-2-pentanone	86	87	46-139	16	30				
Methylene Chloride	156*	37*	61-141	44*	30				
n-Propylbenzene	126	127	39-157	15	30				
Styrene	94	91	35-134	11	30				
1,1,1,2-Tetrachloroethane	101	105	52-130	18	30				
1,1,2,2-Tetrachloroethane	107	112	40-152	19	30				
Tetrachloroethene	117	116	42-149	14	30				
Toluene	111	114	50-146	17	30				
1,2,3-Trichlorobenzene	67	66	10-140	12	30				
1,2,4-Trichlorobenzene	67	66	10-136	12	30				
1,1,1-Trichloroethane	106	109	64-142	17	30				
1,1,2-Trichloroethane	103	104	54-139	15	30				
Trichloroethene	55	128	53-144	50*	30				
Trichlorofluoromethane	102	101	47-163	13	30				
1,2,3-Trichloropropane	108	113	45-154	19	30				
1,2,4-Trimethylbenzene	112	116	37-149	17	30				
1,3,5-Trimethylbenzene	118	123	38-150	18	30				
Vinyl Chloride	103	107	50-154	18	30				
m+p-Xylene	107	108	44-137	15	30				
o-Xylene	101	101	42-137	15	30				
Batch number: E111301AA	Sample number(s): 6279801 UNSPK: P275761								
1,4-Dioxane	91	91	70-130	6	30				
Batch number: E111302AA	Sample number(s): 6279802 UNSPK: P279836								
1,4-Dioxane	121	111	73-138	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11127SLA026	Sample number(s): 6279801 UNSPK: P278711								
Aniline	82	83	35-95	1	30				
Benzidine	29*	34*	35-141	17	30				
Benzoic acid	63	64	10-173	2	30				
Benzyl alcohol	100	100	67-115	0	30				
4-Bromophenyl-phenylether	96	98	67-129	2	30				
Carbazole	94	94	64-120	0	30				
4-Chloro-3-methylphenol	96	98	76-110	1	30				
4-Chloroaniline	42	42	23-95	1	30				
bis(2-Chloroethoxy)methane	97	97	75-104	1	30				
bis(2-Chloroethyl)ether	96	96	60-116	0	30				
bis(2-Chloroisopropyl)ether	90	93	55-142	3	30				
2-Chloronaphthalene	70	72	50-141	2	30				
2-Chlorophenol	98	101	73-121	3	30				
4-Chlorophenyl-phenylether	91	96	80-109	5	30				
Dibenzofuran	93	98	71-112	5	30				
1,2-Dichlorobenzene	78	87	66-108	10	30				
1,3-Dichlorobenzene	75	81	63-109	7	30				
1,4-Dichlorobenzene	76	83	70-100	8	30				
3,3'-Dichlorobenzidine	73	77	16-119	4	30				
2,4-Dichlorophenol	92	96	78-117	4	30				
2,4-Dimethylphenol	98	100	78-110	1	30				
3,5-Dimethylphenol	103	104	70-130	1	30				
4,6-Dinitro-2-methylphenol	78	79	24-116	1	30				
2,4-Dinitrophenol	70	67	20-143	3	30				
2,4-Dinitrotoluene	92	97	73-113	5	30				
2,6-Dinitrotoluene	94	97	69-123	3	30				
1,2-Diphenylhydrazine	109	108	71-129	0	30				
bis(2-Ethylhexyl)phthalate	97	100	63-122	3	30				
Hexachlorobenzene	97	99	77-114	2	30				
Hexachlorobutadiene	83	89	62-120	7	30				
Hexachlorocyclopentadiene	60	56	10-153	7	30				
Hexachloroethane	74	82	57-109	10	30				
Isophorone	95	95	73-102	0	30				
2-Methylphenol	100	100	75-111	1	30				
4-Methylphenol	96	97	71-111	2	30				
2-Nitroaniline	94	101	67-125	7	30				
3-Nitroaniline	91	94	59-122	4	30				
4-Nitroaniline	74	75	52-112	2	30				
Nitrobenzene	94	97	72-106	3	30				
2-Nitrophenol	95	95	74-115	1	30				
4-Nitrophenol	83	84	54-113	1	30				
N-Nitroso-di-n-propylamine	98	98	60-116	1	30				
N-Nitrosodiphenylamine	101	102	86-145	1	30				
Pentachlorophenol	71	71	28-127	0	30				
Phenol	97	96	58-126	1	30				
1,2,4-Trichlorobenzene	87	91	72-115	4	30				
2,4,5-Trichlorophenol	95	97	78-109	3	30				
2,4,6-Trichlorophenol	93	100	77-115	7	30				
Batch number: 11129SLB026	Sample number(s): 6279801 UNSPK: P278711								
Acenaphthene	89	88	63-105	1	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	94	93	67-114	0	30				
Anthracene	99	99	60-122	1	30				
Benzo(a)anthracene	99	99	59-128	1	30				
Benzo(a)pyrene	99	101	45-138	2	30				
Benzo(b)fluoranthene	96	105	43-155	9	30				
Benzo(g,h,i)perylene	92	89	33-141	4	30				
Benzo(k)fluoranthene	99	91	42-144	8	30				
Butylbenzylphthalate	122	124	57-173	2	30				
Di-n-butylphthalate	112	115	65-148	3	30				
Chrysene	94	94	48-134	0	30				
Dibenz(a,h)anthracene	98	96	22-133	1	30				
Diethylphthalate	99	100	70-136	1	30				
Dimethylphthalate	102	101	74-118	1	30				
Fluoranthene	99	100	26-166	2	30				
Fluorene	99	98	66-122	0	30				
Indeno(1,2,3-cd)pyrene	95	93	21-143	1	30				
1-Methylnaphthalene	91	89	72-123	1	30				
2-Methylnaphthalene	82	81	64-103	1	30				
Naphthalene	87	85	61-102	2	30				
N-Nitrosodimethylamine	91	89	48-113	2	30				
Di-n-octylphthalate	82	91	40-192	8	30				
Phenanthrene	92	92	12-165	1	30				
Pyrene	94	94	15-153	0	30				
Batch number: 111390012A	Sample number(s): 6279801 UNSPK: P290803								
PCB-1016	96	108	29-146	12	50				
PCB-1260	106	96	39-149	9	50				
Batch number: 111291026001A	Sample number(s): 6279801 UNSPK: P278711 BKG: P278711								
Antimony	23*	2*	75-125	45*	20	0.383	0.0979 J	119* (1)	20
Arsenic	-65 (2)	-34 (2)	75-125	7	20	9.24	3.92	81*	20
Beryllium	113	113	75-125	0	20	0.933	0.580	47*	20
Cadmium	125	132*	75-125	3	20	0.430	0.233	59* (1)	20
Chromium	155*	170*	75-125	3	20	22.9	18.1	24*	20
Cobalt	133*	144*	75-125	6	20	11.1	7.69	37*	20
Copper	137*	158*	75-125	6	20	15.3	11.2	30*	20
Lead	-118 (2)	-97 (2)	75-125	5	20	16.1	6.02	91*	20
Nickel	107	133*	75-125	7	20	20.7	13.1	45*	20
Silver	129*	132*	75-125	1	20	0.0351 J	0.0248 J	34* (1)	20
Thallium	173*	159*	75-125	7	20	0.259	0.240	8 (1)	20
Vanadium	4 (2)	55 (2)	75-125	8	20	61.7	33.6	59*	20
Zinc	42 (2)	127 (2)	75-125	12	20	59.3	40.9	37*	20
Batch number: 111291026001B	Sample number(s): 6279801 UNSPK: P278711 BKG: P278711								
Selenium	115	113	75-125	2	20	0.251 J	0.199 J	23* (1)	20
Batch number: 111291026001C	Sample number(s): 6279801 UNSPK: P278711 BKG: P278711								
Molybdenum	111	117	75-125	4	20	1.22	0.474	88* (1)	20
Batch number: 111291026001D	Sample number(s): 6279801 UNSPK: P278711 BKG: P278711								
Barium	252 (2)	318 (2)	75-125	4	20	124	96.6	25*	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111295708001	Sample number(s): 6279801 UNSPK: P277627 BKG: P277627								
Aluminum	2053 (2)	2307 (2)	75-125	1	20	23,800	22,800	4	20
Boron	90	89	84-115	5	20	7.67	7.10	8 (1)	20
Calcium	110 (2)	70 (2)	75-125	3	20	5,740	5,560	3	20
Iron	4092 (2)	320 (2)	75-125	13	20	27,000	27,600	2	20
Lithium	97	97	82-114	3	20	20.7	20.1	3	20
Magnesium	266 (2)	250 (2)	75-125	1	20	5,970	5,850	2	20
Manganese	118 (2)	61 (2)	75-125	8	20	350	356	2	20
Phosphorus	88	83	75-125	3	20	236	221	7	20
Potassium	115	135*	75-125	3	20	3,300	3,130	5	20
Sodium	95	94	75-125	4	20	230	233	2 (1)	20
Strontium	95	95	75-115	4	20	26.2	25.3	4	20
Tin	83	82	80-110	5	20	2.22 J	2.32 J	4 (1)	20
Zirconium	91	91	75-125	4	20	1.76 J	2.45 J	33* (1)	20
Batch number: 111295711001	Sample number(s): 6279801 UNSPK: 6279801 BKG: 6279801								
Mercury	91	84	65-135	7	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 111375708002	Sample number(s): 6279801 UNSPK: P288929 BKG: P288929								
Titanium	249 (2)	243 (2)	75-125	0	20	1,270	1,200	6	20
Batch number: 11130621201A	Sample number(s): 6279801 UNSPK: P277627 BKG: P277627								
7a Perchlorate EPA 314.0	117		80-120			170	174	3	15
Batch number: 11137621202A	Sample number(s): 6279801 UNSPK: P278711 BKG: P278711								
11a Anions by 300.0 - Fluoride	44*		80-120			2.1	1.4	45* (1)	20
Batch number: 11139243201A	Sample number(s): 6279801 UNSPK: P275761 BKG: P275761								
3a Cr VI by EPA 7199	79		75-125			0.71 J	0.42 J	51* (1)	20
Batch number: 11136039401B	Sample number(s): 6279801 BKG: P281100								
18a pH by 9045C						8.05	8.18	2	3
Batch number: 11136182101B	Sample number(s): 6279801 BKG: P281100								
32a OR Potential						511	499	2	6
Batch number: 11133162402A	Sample number(s): 6279801 BKG: P275761								
Moisture Content by 160.3						14.7	13.0	13	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111311AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Surrogate Quality Control

6279801	101	109	102	94
Blank	99	102	102	91
LCS	99	107	105	99
LCSD	100	107	105	99
MS	98	99	111	95
MSD	97	102	113	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111301AA

	Toluene-d8
6279801	100
Blank	99
LCS	99
LCSD	99
MS	99
MSD	99
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111302AA

	Toluene-d8
6279802	101
Blank	102
LCS	102
MS	101
MSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111322AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6279802	105	104	99	97
Blank	105	103	99	97
LCS	105	101	99	101
LCSD	104	101	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11127SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6279801	85	84	58	79	79	79
Blank	95	95	94	91	90	90
LCS	100	97	91	92	90	88
MS	104	100	83	93	93	88
MSD	101	99	88	94	96	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245724
Reported: 05/27/11 at 04:56 PM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11129SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6279801	79	73	75
Blank	92	94	105
LCS	94	85	91
MS	113	96	99
MSD	109	93	98
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111390012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6279801	119	121*
Blank	95	102
LCS	96	105
LCSD	106	113
MS	98	114
MSD	92	99
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Op#1245724 Sample#6279801-02

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals: EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs-EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs-EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-086-SA8N-SB-7.0	05.06.11	0855	SOIL	NONE	4-Encores										X	X										
SL-086-SA8N-SB-6.5-7.5	05.06.11	0900	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
TB-050611	05.06.11	0800	WATER	NONE	3-40 mL vials										X	X										
Relinquished by: (Signature)	Date/Time 5/06/2011 1700		Received for Laboratory by: (Signature)																							Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1442 0867																							

5/7/11 0935

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/07/2011
Group Number: 1245725
SDG: DX079
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-086-SA8N-SB-6.5-7.5 Soil	6279803

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279803
LLI Group # 1245725
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7914 SDG#: DX079-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279803
LLI Group # 1245725
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7914 SDG#: DX079-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0232	U	0.0232	1.08	1
11031	12378-PeCDD	40321-76-4	0.0232	U	0.0232	5.41	1
11031	123478-HxCDD	39227-28-6	0.0178	U	0.0178	5.41	1
11031	123678-HxCDD	57653-85-7	0.0355	JBQ	0.0187	5.41	1
11031	123789-HxCDD	19408-74-3	0.0609	JQ	0.0189	5.41	1
11031	1234678-HpCDD	35822-46-9	0.432	JB	0.0293	5.41	1
11031	OCDD	3268-87-9	3.53	JB	0.0577	10.8	1
11031	2378-TCDF	51207-31-9	0.0234	U	0.0234	1.08	1
11031	12378-PeCDF	57117-41-6	0.0421	JB	0.0146	5.41	1
11031	23478-PeCDF	57117-31-4	0.129	JBQ	0.0157	5.41	1
11031	123478-HxCDF	70648-26-9	0.101	JBQ	0.0246	5.41	1
11031	123678-HxCDF	57117-44-9	0.0976	JBQ	0.0203	5.41	1
11031	123789-HxCDF	72918-21-9	0.0887	JB	0.0272	5.41	1
11031	234678-HxCDF	60851-34-5	0.221	JB	0.0218	5.41	1
11031	1234678-HpCDF	67562-39-4	1.05	JB	0.0245	5.41	1
11031	1234789-HpCDF	55673-89-7	0.101	JB	0.0426	5.41	1
11031	OCDF	39001-02-0	2.64	JB	0.0574	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279803
LLI Group # 1245725
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7914 SDG#: DX079-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA8N-SB-6.5-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA8N-SB-6.5-7.5

LLI Sample # SW 6279803
LLI Group # 1245725
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/06/2011 09:00

Submitted: 05/07/2011 09:35
Reported: 05/27/2011 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7914 SDG#: DX079-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11130001	05/15/2011 00:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11130001	05/10/2011 12:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11133162402A	05/13/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245725
Reported: 05/27/11 at 08:40 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11133162402A	Sample number(s): 6279803								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11130001	Sample number(s): 6279803								
2378-TCDD	0.0281 U	0.0281	1.00	ng/kg	89		67-158		
12378-PeCDD	0.0266 U	0.0266	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0476 J	0.0247	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0438 J	0.0263	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0248 U	0.0248	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.222 J	0.0426	5.00	ng/kg	88		70-140		
OCDD	0.374 J	0.0430	10.0	ng/kg	91		78-144		
2378-TCDF	0.0237 U	0.0237	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0464 J	0.0168	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0806 J	0.0170	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0433 J	0.0238	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0492 J	0.0204	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0800 J	0.0211	5.00	ng/kg	89		78-130		
234678-HxCDF	0.112 J	0.0182	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.188 J	0.0202	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0898 J	0.0333	5.00	ng/kg	88		78-138		
OCDF	0.189 J	0.0454	10.0	ng/kg	90		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11133162402A	Sample number(s): 6279803					BKG: P275761			
Moisture Content by 160.3						14.7	13.0	13	20
Batch number: 11130001	Sample number(s): 6279803					UNSPK: P275773			
2378-TCDD	91	93	67-158	3	25				
12378-PeCDD	95	94	70-142	0	25				
123478-HxCDD	94	96	70-164	2	25				
123678-HxCDD	95	95	76-134	0	25				
123789-HxCDD	94	94	64-162	0	25				
1234678-HpCDD	93	93	70-140	0	25				
OCDD	94	95	78-144	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245725
Reported: 05/27/11 at 08:40 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	106	104	75-158	1	25				
12378-PeCDF	98	98	80-134	1	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	101	97	72-134	3	25				
123678-HxCDF	98	96	84-130	1	25				
123789-HxCDF	95	94	78-130	0	25				
234678-HxCDF	101	98	70-156	3	25				
1234678-HpCDF	91	94	82-122	3	25				
1234789-HpCDF	93	93	78-138	1	25				
OCDF	98	97	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11130001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6279803	70	68	66	76	70	63
Blank	62	63	51	57	63	60
MS	64	70	22	26	71	68
MSD	44	38	26	32	37	43
OPR	47	43	28	32	41	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6279803	89	60	54	71	74	77
Blank	73	51	44	77	68	68
MS	43	64	55	72	75	68
MSD	40	37	32	46	46	41
OPR	43	39	31	50	52	48
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6279803	78	75	71	70	65	77
Blank	68	68	67	63	58	66
MS	67	74	73	69	61	76
MSD	41	44	40	36	37	49
OPR	48	51	49	43	41	51
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245725
Reported: 05/27/11 at 08:40 AM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct#13013 Op#1245125 Sample#6279803

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TRH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphonyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-086-SA8N-SB-7.0	05.06.11	0855	SOIL	NONE	4-Encores																						
SL-086-SA8N-SB-6.5-7.5	05.06.11	0900	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X		X	X											
TB-050611	05.06.11	0800	WATER	NONE	3-40 mL vials																						
															X	X											

Relinquished by: (Signature) — Date/Time: 5/06/2011 1700 — Received for Laboratory by: (Signature) — 5/11 0935

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1442 0867

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/10/2011
Group Number: 1245991
SDG: DE146
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-078-SA8N-SB-4.0-5.0 Soil	6281095
SL-087-SA8N-SB-4.0-5.0 Soil	6281096
SL-087-SA8N-SB-9.0-10.0 Soil	6281097
SL-088-SA8N-SB-3.0-4.0 Soil	6281098
SL-135-SA8N-SB-2.0-3.0 Soil	6281099
SL-141-SA8N-SB-4.0-5.0 Soil	6281100
SL-141-SA8N-SB-4.0-5.0MS Soil	6281101
SL-141-SA8N-SB-4.0-5.0MSD Soil	6281102
SL-141-SA8N-SB-4.0-5.0DUP Soil	6281103
DUP08-SA8N-QC-050911 Soil	6281104
TB-050911 Water	6281105

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Erik J. Frederiksen
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.9
06192	Methylene Chloride	75-09-2	17		0.24	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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SL-078-SA8N-SB-4.0-5.0

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S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	9.5		2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	1.7		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.2		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.65	22.5		1
07914	Boron	7440-42-8	4.02	J	0.999	5.61		1

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Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0784 SDG#: DE146-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	6,880		6.88	22.5		1
01654	Iron	7439-89-6	24,900		5.29	22.5		1
01656	Lithium	7439-93-2	25.1		0.25	2.2		1
01657	Magnesium	7439-95-4	5,360		2.85	11.2		1
06958	Manganese	7439-96-5	213		0.0876	0.561		1
10145	Phosphorus	7723-14-0	225		0.629	11.2		1
01662	Potassium	7440-09-7	1,930		20.2	56.1		1
01667	Sodium	7440-23-5	448		41.9	112		1
07968	Strontium	7440-24-6	28.1		0.0696	0.561		1
06969	Tin	7440-31-5	3.16	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,400		0.427	1.12		1
10146	Zirconium	7440-67-7	5.16	J	0.943	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.01		0.0889	0.445		2
06126	Barium	7440-39-3	104		0.120	0.445		2
06127	Beryllium	7440-41-7	0.555		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0500	J	0.0445	0.111		2
06131	Chromium	7440-47-3	20.3		0.133	0.445		2
06132	Cobalt	7440-48-4	7.45		0.0222	0.111		2
06133	Copper	7440-50-8	10.3		0.0734	0.445		2
06135	Lead	7439-92-1	5.42		0.0116	0.222		2
06138	Molybdenum	7439-98-7	1.29		0.0556	0.111		2
06139	Nickel	7440-02-0	13.0		0.111	0.445		2
06141	Selenium	7782-49-2	0.132	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0734	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.219		0.0333	0.111		2
06148	Vanadium	7440-62-2	55.2		0.0245	0.111		2
06149	Zinc	7440-66-6	46.1		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	17.3	J	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0784 SDG#: DE146-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.56		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	436		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.13		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-078-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011	09:54	Angela D Sneeringer	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011	11:17	Jason M Long	21.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011	21:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011	22:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011	22:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011	21:34	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/17/2011	20:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011	00:08	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/19/2011	15:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011	16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011	08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011	17:15	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 22:44	Elizabeth J Marin	19.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:34	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 03:41	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:02	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111300023A	05/12/2011 12:56	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/14/2011 23:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111300023A	05/11/2011 10:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 00:47	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 21:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 13:32	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 18:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 11:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 11:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 15:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2

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Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281095
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0784 SDG#: DE146-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 15:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 15:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 15:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 01:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 01:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 10:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 02:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:51	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281096
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0874 SDG#: DE146-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	10		0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281096
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0874 SDG#: DE146-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.87
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.2	J	19.3	38.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281096
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0874 SDG#: DE146-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281096
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0874 SDG#: DE146-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.83	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,900		5.64	22.4		1
07914	Boron	7440-42-8	2.27	J	0.998	5.61		1
01650	Calcium	7440-70-2	3,200		6.87	22.4		1
01654	Iron	7439-89-6	25,200		5.28	22.4		1
01656	Lithium	7439-93-2	23.1		0.25	2.2		1
01657	Magnesium	7439-95-4	4,760		2.85	11.2		1

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LLI Sample # SW 6281096
LLI Group # 1245991
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S0874 SDG#: DE146-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	320		0.0874	0.561		1
10145	Phosphorus	7723-14-0	214		0.628	11.2		1
01662	Potassium	7440-09-7	2,690		20.2	56.1		1
01667	Sodium	7440-23-5	193		41.8	112		1
07968	Strontium	7440-24-6	24.7		0.0695	0.561		1
06969	Tin	7440-31-5	3.12	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,280		0.426	1.12		1
10146	Zirconium	7440-67-7	5.14	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.46		0.0906	0.453		2
06126	Barium	7440-39-3	102		0.122	0.453		2
06127	Beryllium	7440-41-7	0.578		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.126		0.0453	0.113		2
06131	Chromium	7440-47-3	20.1		0.136	0.453		2
06132	Cobalt	7440-48-4	6.96		0.0226	0.113		2
06133	Copper	7440-50-8	9.40		0.0747	0.453		2
06135	Lead	7439-92-1	5.51		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.587		0.0566	0.113		2
06139	Nickel	7440-02-0	12.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.141	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0363	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.286		0.0340	0.113		2
06148	Vanadium	7440-62-2	45.1		0.0249	0.113		2
06149	Zinc	7440-66-6	43.2		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.8		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

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CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	453	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.93	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-087-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 10:17	Angela D Sneeringer	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 11:37	Jason M Long	20.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 21:40	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/17/2011 20:17	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011 00:32	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/19/2011 15:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 23:21	Elizabeth J Marin	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:39	Lois E Hiltz	n.a.

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 04:23	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/14/2011 23:50	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 01:12	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 21:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 11:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 18:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 12:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 12:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 15:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 15:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 15:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2

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Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281096
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0874 SDG#: DE146-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 15:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 02:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 02:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 11:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 02:38	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0879 SDG#: DE146-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.8
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.8
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.8
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.8
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.8
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.8
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.8
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.8
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.8
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.8
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.8
06192	Methylene Chloride	75-09-2	23		0.23	3.8		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.8

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Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0879 SDG#: DE146-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.8
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.8
06192	Toluene	108-88-3	0.1	J	0.08	3.8		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.8
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0879 SDG#: DE146-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1

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Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0879 SDG#: DE146-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
Account # 13013

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.93	23.6		1
07914	Boron	7440-42-8	1.49	J	1.05	5.90		1
01650	Calcium	7440-70-2	3,520		7.23	23.6		1
01654	Iron	7439-89-6	26,000		5.55	23.6		1
01656	Lithium	7439-93-2	27.9		0.26	2.4		1
01657	Magnesium	7439-95-4	4,720		3.00	11.8		1

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SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
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S0879 SDG#: DE146-03

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	299		0.0920	0.590		1
10145	Phosphorus	7723-14-0	161		0.660	11.8		1
01662	Potassium	7440-09-7	2,170		21.2	59.0		1
01667	Sodium	7440-23-5	225		44.0	118		1
07968	Strontium	7440-24-6	23.0		0.0731	0.590		1
06969	Tin	7440-31-5	3.06	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,400		0.448	1.18		1
10146	Zirconium	7440-67-7	5.96		0.991	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.23		0.0916	0.458		2
06126	Barium	7440-39-3	134		0.124	0.458		2
06127	Beryllium	7440-41-7	0.754		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0908	J	0.0458	0.114		2
06131	Chromium	7440-47-3	27.6		0.137	0.458		2
06132	Cobalt	7440-48-4	9.77		0.0229	0.114		2
06133	Copper	7440-50-8	11.9		0.0756	0.458		2
06135	Lead	7439-92-1	6.87		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.618		0.0572	0.114		2
06139	Nickel	7440-02-0	17.6		0.114	0.458		2
06141	Selenium	7782-49-2	0.107	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0538	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.374		0.0343	0.114		2
06148	Vanadium	7440-62-2	59.6		0.0252	0.114		2
06149	Zinc	7440-66-6	57.2		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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SL-087-SA8N-SB-9.0-10.0

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CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	527	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.53	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-087-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 10:39	Angela D Sneeringer	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 11:57	Jason M Long	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 21:45	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/17/2011 20:34	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011 00:56	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/19/2011 16:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 20:25	Elizabeth J Marin	19.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:44	Lois E Hiltz	n.a.

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SL-087-SA8N-SB-9.0-10.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 05:06	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 00:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 01:37	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 22:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 11:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 19:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 12:04	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 12:04	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 14:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2

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SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281097
LLI Group # 1245991
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S0879 SDG#: DE146-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 02:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 02:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 11:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 02:50	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.89
06192	Methylene Chloride	75-09-2	28		0.24	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.89
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
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S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.83	J	0.76	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
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S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.60	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.65	22.5		1
07914	Boron	7440-42-8	1.78	J	0.999	5.62		1
01650	Calcium	7440-70-2	2,270		6.88	22.5		1
01654	Iron	7439-89-6	21,800		5.29	22.5		1
01656	Lithium	7439-93-2	24.8		0.25	2.2		1
01657	Magnesium	7439-95-4	4,630		2.85	11.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	273		0.0876	0.562		1
10145	Phosphorus	7723-14-0	450		0.629	11.2		1
01662	Potassium	7440-09-7	3,010		20.2	56.2		1
01667	Sodium	7440-23-5	91.0	J	41.9	112		1
07968	Strontium	7440-24-6	18.2		0.0696	0.562		1
06969	Tin	7440-31-5	3.00	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,200		0.427	1.12		1
10146	Zirconium	7440-67-7	2.14	J	0.943	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.347		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.76		0.0898	0.449		2
06126	Barium	7440-39-3	106		0.121	0.449		2
06127	Beryllium	7440-41-7	0.688		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.138		0.0449	0.112		2
06131	Chromium	7440-47-3	22.6		0.135	0.449		2
06132	Cobalt	7440-48-4	6.93		0.0225	0.112		2
06133	Copper	7440-50-8	11.6		0.0741	0.449		2
06135	Lead	7439-92-1	6.30		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.664		0.0562	0.112		2
06139	Nickel	7440-02-0	14.3		0.112	0.449		2
06141	Selenium	7782-49-2	0.342	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0304	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.320		0.0337	0.112		2
06148	Vanadium	7440-62-2	51.7		0.0247	0.112		2
06149	Zinc	7440-66-6	65.6		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	539	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	5.39	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 11:01	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 12:17	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:24	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 21:50	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/17/2011 21:07	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011 01:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/20/2011 00:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 23:57	Elizabeth J Marin	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:49	Lois E Hiltz	n.a.

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Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 05:48	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 00:27	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 02:02	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 22:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 11:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 20:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 12:08	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 12:08	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 14:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2

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Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281098
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0883 SDG#: DE146-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 02:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 02:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 12:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 02:57	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.98
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.98
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.98
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.98
06192	Chloroform	67-66-3	0.14	J	0.13	4.4		0.98
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.98
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.4		0.98
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.98
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.4		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.4		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.4		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.4		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.98
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.98
06192	Methylene Chloride	75-09-2	27		0.26	4.4		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.98

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.98
06192	Toluene	108-88-3	0.09	J	0.09	4.4		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.4		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.4		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	55.7		18.4	36.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.2	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

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14420 Albemarle Point Place
Suite 210
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S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.9		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		5.51	21.9		1
07914	Boron	7440-42-8	0.975	U	0.975	5.48		1
01650	Calcium	7440-70-2	2,580		6.71	21.9		1
01654	Iron	7439-89-6	20,600		5.16	21.9		1
01656	Lithium	7439-93-2	20.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,390		2.78	11.0		1

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	290		0.0854	0.548		1
10145	Phosphorus	7723-14-0	346		0.613	11.0		1
01662	Potassium	7440-09-7	3,120		19.7	54.8		1
01667	Sodium	7440-23-5	78.7	J	40.9	110		1
07968	Strontium	7440-24-6	13.9		0.0679	0.548		1
06969	Tin	7440-31-5	3.09	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,230		0.416	1.10		1
10146	Zirconium	7440-67-7	3.29	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.36		0.0876	0.438		2
06126	Barium	7440-39-3	106		0.118	0.438		2
06127	Beryllium	7440-41-7	0.698		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.157		0.0438	0.110		2
06131	Chromium	7440-47-3	19.3		0.131	0.438		2
06132	Cobalt	7440-48-4	8.68		0.0219	0.110		2
06133	Copper	7440-50-8	8.60		0.0723	0.438		2
06135	Lead	7439-92-1	8.31		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.606		0.0548	0.110		2
06139	Nickel	7440-02-0	10.7		0.110	0.438		2
06141	Selenium	7782-49-2	0.135	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0131	U	0.0131	0.110		2
06145	Thallium	7440-28-0	0.336		0.0329	0.110		2
06148	Vanadium	7440-62-2	45.1		0.0241	0.110		2
06149	Zinc	7440-66-6	65.3		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	532	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.24	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-135-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 11:23	Angela D Sneeringer	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 12:37	Jason M Long	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 21:55	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/18/2011 13:45	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011 01:45	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/20/2011 00:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 00:33	Elizabeth J Marin	24.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:54	Lois E Hiltz	n.a.

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 06:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:50	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 00:46	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 02:27	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 22:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 11:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 20:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 12:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 12:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 15:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 15:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 15:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2

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Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281099
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1352 SDG#: DE146-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 15:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 02:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 02:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 12:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 03:21	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.94
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.94
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.94
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.94
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.94
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.94
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.94
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		0.94
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.94
06192	Chloroform	67-66-3	0.16	J	0.14	4.5		0.94
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.94
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.94
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.94
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.94
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.94
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.94
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.94
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.94
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.94
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		0.94
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.94
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.94
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.94
06192	Methylene Chloride	75-09-2	30		0.27	4.5		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.94

*=This limit was used in the evaluation of the final result
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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.94
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.94
06192	Toluene	108-88-3	0.09	J	0.09	4.5		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.94
06192	Trichloroethene	79-01-6	17		0.17	4.5		0.94
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.94
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	200	U	200	401		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

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S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.85	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.99	23.8		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	7.50		1.06	5.95		1
01650	Calcium	7440-70-2	30,800		7.29	23.8		1
01654	Iron	7439-89-6	30,800		5.61	23.8		1
01656	Lithium	7439-93-2	32.1		0.26	2.4		1
01657	Magnesium	7439-95-4	7,970		3.02	11.9		1
06958	Manganese	7439-96-5	362		0.0928	0.595		1
10145	Phosphorus	7723-14-0	647		0.666	11.9		1
01662	Potassium	7440-09-7	5,720		21.4	59.5		1
01667	Sodium	7440-23-5	303		44.4	119		1
07968	Strontium	7440-24-6	58.4		0.0738	0.595		1
06969	Tin	7440-31-5	3.14	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,350		0.452	1.19		1
10146	Zirconium	7440-67-7	5.89	J	1.00	5.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.236		0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.00		0.0943	0.471		2
06126	Barium	7440-39-3	92.9		0.127	0.471		2
06127	Beryllium	7440-41-7	0.594		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.162		0.0471	0.118		2
06131	Chromium	7440-47-3	27.7		0.141	0.471		2
06132	Cobalt	7440-48-4	9.29		0.0236	0.118		2
06133	Copper	7440-50-8	14.7		0.0778	0.471		2
06135	Lead	7439-92-1	7.39		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.398		0.0589	0.118		2
06139	Nickel	7440-02-0	16.9		0.118	0.471		2
06141	Selenium	7782-49-2	0.289	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0290	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.281		0.0354	0.118		2
06148	Vanadium	7440-62-2	62.3		0.0259	0.118		2
06149	Zinc	7440-66-6	69.4		0.660	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	511		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-141-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 11:46	Angela D Sneeringer	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 12:57	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 22:00	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/18/2011 14:02	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/13/2011 22:54	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/18/2011 19:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1

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Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 21:01	Elizabeth J Marin	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:59	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 07:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 00:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 01:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 02:52	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 22:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 12:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 21:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 11:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 11:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 05:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 14:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281100
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 01:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 01:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/13/2011 10:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 03:34	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.5	7.8		0.81
06192	Benzene	71-43-2	22	0.1	3.9		0.81
06192	Bromobenzene	108-86-1	21	0.13	3.9		0.81
06192	Bromochloromethane	74-97-5	24	0.32	3.9		0.81
06192	Bromodichloromethane	75-27-4	19	0.08	3.9		0.81
06192	Bromoform	75-25-2	17	0.39	3.9		0.81
06192	Bromomethane	74-83-9	18	0.24	3.9		0.81
06192	2-Butanone	78-93-3	120	1.2	7.8		0.81
06192	n-Butylbenzene	104-51-8	22	0.12	3.9		0.81
06192	sec-Butylbenzene	135-98-8	24	0.06	3.9		0.81
06192	tert-Butylbenzene	98-06-6	22	0.16	3.9		0.81
06192	Carbon Tetrachloride	56-23-5	21	0.14	3.9		0.81
06192	Chlorobenzene	108-90-7	21	0.11	3.9		0.81
06192	Chloroethane	75-00-3	18	0.13	3.9		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.29	3.9		0.81
06192	Chloroform	67-66-3	21	0.12	3.9		0.81
06192	Chloromethane	74-87-3	20	0.32	3.9		0.81
06192	2-Chlorotoluene	95-49-8	22	0.14	3.9		0.81
06192	4-Chlorotoluene	106-43-4	21	0.14	3.9		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.68	3.9		0.81
06192	Dibromochloromethane	124-48-1	19	0.19	3.9		0.81
06192	1,2-Dibromoethane	106-93-4	19	0.17	3.9		0.81
06192	Dibromomethane	74-95-3	18	0.23	3.9		0.81
06192	1,2-Dichlorobenzene	95-50-1	19	0.09	3.9		0.81
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	3.9		0.81
06192	1,4-Dichlorobenzene	106-46-7	20	0.16	3.9		0.81
06192	Dichlorodifluoromethane	75-71-8	17	0.12	3.9		0.81
06192	1,1-Dichloroethane	75-34-3	22	0.1	3.9		0.81
06192	1,2-Dichloroethane	107-06-2	19	0.15	3.9		0.81
06192	1,1-Dichloroethene	75-35-4	22	0.38	3.9		0.81
06192	cis-1,2-Dichloroethene	156-59-2	21	0.19	3.9		0.81
06192	trans-1,2-Dichloroethene	156-60-5	24	0.12	3.9		0.81
06192	1,2-Dichloropropane	78-87-5	22	0.17	3.9		0.81
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.9		0.81
06192	2,2-Dichloropropane	594-20-7	19	0.17	3.9		0.81
06192	1,1-Dichloropropene	563-58-6	22	0.13	3.9		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.16	3.9		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	18	0.17	3.9		0.81
06192	Ethylbenzene	100-41-4	21	0.06	3.9		0.81
06192	Freon 113	76-13-1	25	0.11	3.9		0.81
06192	Hexachlorobutadiene	87-68-3	18	0.14	3.9		0.81
06192	2-Hexanone	591-78-6	83	1.6	7.8		0.81
06192	Isopropylbenzene	98-82-8	21	0.06	3.9		0.81
06192	p-Isopropyltoluene	99-87-6	23	0.11	3.9		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.9		0.81
06192	4-Methyl-2-pentanone	108-10-1	84	0.38	7.8		0.81
06192	Methylene Chloride	75-09-2	61	0.23	3.9		0.81
06192	n-Propylbenzene	103-65-1	25	0.07	3.9		0.81
06192	Styrene	100-42-5	18	0.1	3.9		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	20	0.11	3.9		0.81

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.22	3.9		0.81
06192	Tetrachloroethene	127-18-4	23	0.19	3.9		0.81
06192	Toluene	108-88-3	22	0.08	3.9		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	13	0.14	3.9		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	13	0.18	3.9		0.81
06192	1,1,1-Trichloroethane	71-55-6	21	0.19	3.9		0.81
06192	1,1,2-Trichloroethane	79-00-5	20	0.26	3.9		0.81
06192	Trichloroethene	79-01-6	27	0.15	3.9		0.81
06192	Trichlorofluoromethane	75-69-4	20	0.28	3.9		0.81
06192	1,2,3-Trichloropropane	96-18-4	21	0.32	3.9		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.39	3.9		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.1	3.9		0.81
06192	Vinyl Chloride	75-01-4	20	0.19	3.9		0.81
06192	m+p-Xylene	179601-23-1	42	0.17	3.9		0.81
06192	o-Xylene	95-47-6	20	0.17	3.9		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	140	5.7	17		23.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	770	200	401		10
Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	20	200		1
04688	Acenaphthylene	208-96-8	1,900	20	200		1
04688	Aniline	62-53-3	1,600	200	600		1
04688	Anthracene	120-12-7	1,800	20	200		1
04688	Benzidine	92-87-5	6,200	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	1,900	20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	20	200		1
04688	Benzoic acid	65-85-0	1,100	200	600		1
04688	Benzyl alcohol	100-51-6	1,500	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	20	200		1
04688	Butylbenzylphthalate	85-68-7	2,300	20	200		1
04688	Di-n-butylphthalate	84-74-2	2,000	20	200		1
04688	Carbazole	86-74-8	1,900	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	40	200		1
04688	4-Chloroaniline	106-47-8	1,700	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	20	200		1
04688	2-Chloronaphthalene	91-58-7	1,500	20	200		1
04688	2-Chlorophenol	95-57-8	1,900	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	40	200		1
04688	Chrysene	218-01-9	1,900	20	200		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Dibenz(a,h)anthracene	53-70-3	1,900		20	200		1
04688	Dibenzofuran	132-64-9	1,800		20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		120	400		1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200		1
04688	Diethylphthalate	84-66-2	1,800		20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800		40	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900		40	200		1
04688	Dimethylphthalate	131-11-3	1,900		20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	740		200	600		1
04688	2,4-Dinitrophenol	51-28-5	650	J	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		40	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		20	400		1
04688	Fluoranthene	206-44-0	1,800		20	200		1
04688	Fluorene	86-73-7	1,900		20	200		1
04688	Hexachlorobenzene	118-74-1	2,000		20	200		1
04688	Hexachlorobutadiene	87-68-3	1,600		80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	2,000		200	600		1
04688	Hexachloroethane	67-72-1	1,500		20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		20	200		1
04688	Isophorone	78-59-1	1,700		20	200		1
04688	1-Methylnaphthalene	90-12-0	1,900		20	200		1
04688	2-Methylnaphthalene	91-57-6	1,700		20	200		1
04688	2-Methylphenol	95-48-7	2,100		40	200		1
04688	4-Methylphenol	106-44-5	2,000		40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		20	200		1
04688	2-Nitroaniline	88-74-4	1,900		20	200		1
04688	3-Nitroaniline	99-09-2	1,800		40	200		1
04688	4-Nitroaniline	100-01-6	1,500		80	200		1
04688	Nitrobenzene	98-95-3	1,700		20	200		1
04688	2-Nitrophenol	88-75-5	1,800		20	200		1
04688	4-Nitrophenol	100-02-7	1,600		200	600		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		40	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000		20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,300		20	200		1
04688	Pentachlorophenol	87-86-5	1,300		200	600		1
04688	Phenanthrene	85-01-8	1,800		20	200		1
04688	Phenol	108-95-2	1,800		20	200		1
04688	Pyrene	129-00-0	2,100		20	200		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		0.79	2.0		1
10138	Acenaphthylene	208-96-8	37		0.40	2.0		1
10138	Anthracene	120-12-7	39		0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	40		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	41		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	40		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	42		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	42		7.1	21		1
10138	Di-n-butylphthalate	84-74-2	43		7.1	21		1
10138	Chrysene	218-01-9	39		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	43		0.79	2.0		1
10138	Diethylphthalate	84-66-2	41		7.1	21		1
10138	Dimethylphthalate	131-11-3	39		7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		7.1	21		1
10138	Fluoranthene	206-44-0	41		0.79	2.0		1
10138	Fluorene	86-73-7	39		0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	38		0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	35		0.79	2.0		1
10138	Naphthalene	91-20-3	38		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	35		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	47		7.1	21		1
10138	Phenanthrene	85-01-8	37		0.79	2.0		1
10138	Pyrene	129-00-0	38		0.79	2.0		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 6.4 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	16		0.2	1.2		24.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		72	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		48	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290		1
10132	1,3-Dinitrobenzene	99-65-0	2,400		48	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,200		48	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		48	140		1
10132	HMX	2691-41-0	1,800		120	360		1
10132	Nitrobenzene	98-95-3	2,400		48	140		1
10132	Nitroglycerin	55-63-0	50,000		960	2,900		1
10132	2-Nitrotoluene	88-72-2	2,300		96	140		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	2,300		120	140		1
10132	4-Nitrotoluene	99-99-0	2,200		96	140		1
10132	PETN	78-11-5	59,000		960	2,900		1
10132	RDX	121-82-4	1,900		60	140		1
10132	Tetryl	479-45-8	1,600		74	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		48	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		48	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,800		720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	22		0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	20		0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.71	J	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	2.8		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.71	J	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		120	600		1
10501	Isopropanol	67-63-0	2,300		120	600		1
10501	Methanol	67-56-1	2,200		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	99		6.0	12		1
08283	Ethylene glycol	107-21-1	150		6.0	12		1
08283	Propylene glycol	57-55-6	150		6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.8		1.7	1.7		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	1.7	1.7		1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,500	5.93	23.6		1
07914	Boron	7440-42-8	248	1.05	5.89		1
01650	Calcium	7440-70-2	28,800	7.22	23.6		1
01654	Iron	7439-89-6	33,700	27.8	118		5
01656	Lithium	7439-93-2	158	0.26	2.4		1
01657	Magnesium	7439-95-4	9,030	2.99	11.8		1
06958	Manganese	7439-96-5	431	0.0919	0.589		1
10145	Phosphorus	7723-14-0	748	0.660	11.8		1
01662	Potassium	7440-09-7	8,050	21.2	58.9		1
01667	Sodium	7440-23-5	1,550	44.0	118		1
07968	Strontium	7440-24-6	179	0.0731	0.589		1
06969	Tin	7440-31-5	415	1.18	11.8		1
06970	Titanium	7440-32-6	1,910	0.448	1.18		1
10146	Zirconium	7440-67-7	106	0.990	5.89		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.795	0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.07	0.0943	0.471		2
06126	Barium	7440-39-3	104	0.127	0.471		2
06127	Beryllium	7440-41-7	1.41	0.0189	0.118		2
06128	Cadmium	7440-43-9	1.22	0.0471	0.118		2
06131	Chromium	7440-47-3	36.2	0.141	0.471		2
06132	Cobalt	7440-48-4	68.6	0.0236	0.118		2
06133	Copper	7440-50-8	25.5	0.0778	0.471		2
06135	Lead	7439-92-1	11.4	0.0123	0.236		2
06138	Molybdenum	7439-98-7	11.2	0.0589	0.118		2
06139	Nickel	7440-02-0	28.4	0.118	0.471		2
06141	Selenium	7782-49-2	2.38	0.0471	0.471		2
06142	Silver	7440-22-4	11.2	0.0141	0.118		2
06145	Thallium	7440-28-0	0.746	0.0354	0.118		2
06148	Vanadium	7440-62-2	77.9	0.0259	0.118		2
06149	Zinc	7440-66-6	79.4	0.660	3.54		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.186	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.9	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.9	0.96	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	533	10.8	36.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	44.5	1.2	6.0		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.8	0.21	0.58		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-141-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 12:08	Angela D Sneeringer	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 13:37	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:09	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 22:06	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/18/2011 14:19	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/13/2011 23:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/18/2011 19:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 21:35	Elizabeth J Marin	24.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 21:33	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 09:20	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 01:09	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 01:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 03:41	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 23:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 13:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 22:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 11:44	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 11:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 11:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 14:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281101
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 01:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 01:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/13/2011 11:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 03:53	Parker D Lindstrom	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	7.5	9.0		0.94
06192	Benzene	71-43-2	26	0.11	4.5		0.94
06192	Bromobenzene	108-86-1	26	0.15	4.5		0.94
06192	Bromochloromethane	74-97-5	26	0.37	4.5		0.94
06192	Bromodichloromethane	75-27-4	22	0.09	4.5		0.94
06192	Bromoform	75-25-2	19	0.45	4.5		0.94
06192	Bromomethane	74-83-9	19	0.28	4.5		0.94
06192	2-Butanone	78-93-3	140	1.4	9.0		0.94
06192	n-Butylbenzene	104-51-8	25	0.14	4.5		0.94
06192	sec-Butylbenzene	135-98-8	29	0.07	4.5		0.94
06192	tert-Butylbenzene	98-06-6	26	0.18	4.5		0.94
06192	Carbon Tetrachloride	56-23-5	25	0.16	4.5		0.94
06192	Chlorobenzene	108-90-7	24	0.12	4.5		0.94
06192	Chloroethane	75-00-3	19	0.15	4.5		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.34	4.5		0.94
06192	Chloroform	67-66-3	24	0.14	4.5		0.94
06192	Chloromethane	74-87-3	24	0.37	4.5		0.94
06192	2-Chlorotoluene	95-49-8	27	0.16	4.5		0.94
06192	4-Chlorotoluene	106-43-4	25	0.16	4.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.79	4.5		0.94
06192	Dibromochloromethane	124-48-1	22	0.23	4.5		0.94
06192	1,2-Dibromoethane	106-93-4	22	0.19	4.5		0.94
06192	Dibromomethane	74-95-3	22	0.27	4.5		0.94
06192	1,2-Dichlorobenzene	95-50-1	22	0.10	4.5		0.94
06192	1,3-Dichlorobenzene	541-73-1	23	0.14	4.5		0.94
06192	1,4-Dichlorobenzene	106-46-7	23	0.18	4.5		0.94
06192	Dichlorodifluoromethane	75-71-8	20	0.14	4.5		0.94
06192	1,1-Dichloroethane	75-34-3	26	0.11	4.5		0.94
06192	1,2-Dichloroethane	107-06-2	23	0.17	4.5		0.94
06192	1,1-Dichloroethene	75-35-4	24	0.44	4.5		0.94
06192	cis-1,2-Dichloroethene	156-59-2	24	0.21	4.5		0.94
06192	trans-1,2-Dichloroethene	156-60-5	27	0.14	4.5		0.94
06192	1,2-Dichloropropane	78-87-5	25	0.19	4.5		0.94
06192	1,3-Dichloropropane	142-28-9	24	0.09	4.5		0.94
06192	2,2-Dichloropropane	594-20-7	23	0.19	4.5		0.94
06192	1,1-Dichloropropene	563-58-6	26	0.15	4.5		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.18	4.5		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.19	4.5		0.94
06192	Ethylbenzene	100-41-4	24	0.07	4.5		0.94
06192	Freon 113	76-13-1	27	0.12	4.5		0.94
06192	Hexachlorobutadiene	87-68-3	20	0.16	4.5		0.94
06192	2-Hexanone	591-78-6	99	1.8	9.0		0.94
06192	Isopropylbenzene	98-82-8	24	0.07	4.5		0.94
06192	p-Isopropyltoluene	99-87-6	27	0.12	4.5		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.24	4.5		0.94
06192	4-Methyl-2-pentanone	108-10-1	99	0.44	9.0		0.94
06192	Methylene Chloride	75-09-2	39	0.27	4.5		0.94
06192	n-Propylbenzene	103-65-1	29	0.08	4.5		0.94
06192	Styrene	100-42-5	21	0.11	4.5		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	24	0.12	4.5		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	1,1,2,2-Tetrachloroethane	79-34-5	25	0.26	4.5		0.94
06192	Tetrachloroethene	127-18-4	26	0.23	4.5		0.94
06192	Toluene	108-88-3	26	0.09	4.5		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	15	0.16	4.5		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	15	0.20	4.5		0.94
06192	1,1,1-Trichloroethane	71-55-6	25	0.23	4.5		0.94
06192	1,1,2-Trichloroethane	79-00-5	23	0.30	4.5		0.94
06192	Trichloroethene	79-01-6	45	0.17	4.5		0.94
06192	Trichlorofluoromethane	75-69-4	23	0.33	4.5		0.94
06192	1,2,3-Trichloropropane	96-18-4	25	0.37	4.5		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	26	0.45	4.5		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	28	0.11	4.5		0.94
06192	Vinyl Chloride	75-01-4	24	0.23	4.5		0.94
06192	m+p-Xylene	179601-23-1	48	0.19	4.5		0.94
06192	o-Xylene	95-47-6	23	0.19	4.5		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120	5.5	16		22.81
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	696	200	401		10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	20	200		1
04688	Acenaphthylene	208-96-8	1,900	20	200		1
04688	Aniline	62-53-3	1,800	200	600		1
04688	Anthracene	120-12-7	1,800	20	200		1
04688	Benzidine	92-87-5	6,800	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	1,900	20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	20	200		1
04688	Benzoic acid	65-85-0	1,200	200	600		1
04688	Benzyl alcohol	100-51-6	1,800	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	20	200		1
04688	Butylbenzylphthalate	85-68-7	2,300	20	200		1
04688	Di-n-butylphthalate	84-74-2	2,000	20	200		1
04688	Carbazole	86-74-8	2,000	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	40	200		1
04688	4-Chloroaniline	106-47-8	1,800	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900	20	200		1
04688	2-Chloronaphthalene	91-58-7	1,500	20	200		1
04688	2-Chlorophenol	95-57-8	2,100	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	40	200		1
04688	Chrysene	218-01-9	1,900	20	200		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Dibenz(a,h)anthracene	53-70-3	2,000		20	200		1
04688	Dibenzofuran	132-64-9	1,900		20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800		120	400		1
04688	2,4-Dichlorophenol	120-83-2	2,100		20	200		1
04688	Diethylphthalate	84-66-2	1,900		20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,900		40	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900		40	200		1
04688	Dimethylphthalate	131-11-3	1,900		20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	790		200	600		1
04688	2,4-Dinitrophenol	51-28-5	690	J	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		40	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300		20	400		1
04688	Fluoranthene	206-44-0	1,800		20	200		1
04688	Fluorene	86-73-7	1,900		20	200		1
04688	Hexachlorobenzene	118-74-1	2,000		20	200		1
04688	Hexachlorobutadiene	87-68-3	1,700		80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	2,200		200	600		1
04688	Hexachloroethane	67-72-1	1,600		20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		20	200		1
04688	Isophorone	78-59-1	1,800		20	200		1
04688	1-Methylnaphthalene	90-12-0	1,900		20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800		20	200		1
04688	2-Methylphenol	95-48-7	2,300		40	200		1
04688	4-Methylphenol	106-44-5	2,200		40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,800		20	200		1
04688	2-Nitroaniline	88-74-4	2,000		20	200		1
04688	3-Nitroaniline	99-09-2	1,900		40	200		1
04688	4-Nitroaniline	100-01-6	1,700		80	200		1
04688	Nitrobenzene	98-95-3	1,700		20	200		1
04688	2-Nitrophenol	88-75-5	1,900		20	200		1
04688	4-Nitrophenol	100-02-7	1,600		200	600		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		40	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800		20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000		20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,400		20	200		1
04688	Pentachlorophenol	87-86-5	1,300		200	600		1
04688	Phenanthrene	85-01-8	1,800		20	200		1
04688	Phenol	108-95-2	1,900		20	200		1
04688	Pyrene	129-00-0	2,100		20	200		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	30		0.79	2.0		1
10138	Acenaphthylene	208-96-8	31		0.40	2.0		1
10138	Anthracene	120-12-7	34		0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	36		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	37		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	36		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	38		7.1	21		1
10138	Di-n-butylphthalate	84-74-2	38		7.1	21		1
10138	Chrysene	218-01-9	34		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	38		0.79	2.0		1
10138	Diethylphthalate	84-66-2	35		7.1	21		1
10138	Dimethylphthalate	131-11-3	33		7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		7.1	21		1
10138	Fluoranthene	206-44-0	37		0.79	2.0		1
10138	Fluorene	86-73-7	33		0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37		0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	27		0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	19		0.79	2.0		1
10138	Naphthalene	91-20-3	30		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	43		7.1	21		1
10138	Phenanthrene	85-01-8	35		0.79	2.0		1
10138	Pyrene	129-00-0	33		0.79	2.0		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 6.4 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	13		0.2	1.0		21.82
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	1,700		67	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	1,700		45	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270		1
10132	1,3-Dinitrobenzene	99-65-0	1,800		45	130		1
10132	2,4-Dinitrotoluene	121-14-2	1,700		45	130		1
10132	2,6-Dinitrotoluene	606-20-2	1,700		45	130		1
10132	HMX	2691-41-0	1,300		110	330		1
10132	Nitrobenzene	98-95-3	1,800		45	130		1
10132	Nitroglycerin	55-63-0	38,000		890	2,700		1
10132	2-Nitrotoluene	88-72-2	1,800		89	130		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	1,800		110	130		1
10132	4-Nitrotoluene	99-99-0	1,700		89	130		1
10132	PETN	78-11-5	44,000		890	2,700		1
10132	RDX	121-82-4	1,400		56	130		1
10132	Tetryl	479-45-8	1,300		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,500		45	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	1,700		45	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,900		710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	26		0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	22		0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.73	J	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	3.0		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.67	J	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		120	600		1
10501	Isopropanol	67-63-0	2,200		120	600		1
10501	Methanol	67-56-1	2,100		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	120		6.0	12		1
08283	Ethylene glycol	107-21-1	180		6.0	12		1
08283	Propylene glycol	57-55-6	180		6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6		1.6	1.6		1
10318	o-Terphenyl	84-15-1	1.8		1.8	1.8		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	1.7	1.7		1
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,800	5.93	23.6		1
07914	Boron	7440-42-8	247	1.05	5.89		1
01650	Calcium	7440-70-2	44,700	7.22	23.6		1
01654	Iron	7439-89-6	32,100	27.8	118		5
01656	Lithium	7439-93-2	157	0.26	2.4		1
01657	Magnesium	7439-95-4	8,900	2.99	11.8		1
06958	Manganese	7439-96-5	449	0.0919	0.589		1
10145	Phosphorus	7723-14-0	732	0.660	11.8		1
01662	Potassium	7440-09-7	7,800	21.2	58.9		1
01667	Sodium	7440-23-5	1,550	44.0	118		1
07968	Strontium	7440-24-6	200	0.0731	0.589		1
06969	Tin	7440-31-5	419	1.18	11.8		1
06970	Titanium	7440-32-6	1,860	0.448	1.18		1
10146	Zirconium	7440-67-7	106	0.990	5.89		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.755	0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.68	0.0934	0.467		2
06126	Barium	7440-39-3	106	0.126	0.467		2
06127	Beryllium	7440-41-7	1.35	0.0187	0.117		2
06128	Cadmium	7440-43-9	1.25	0.0467	0.117		2
06131	Chromium	7440-47-3	34.7	0.140	0.467		2
06132	Cobalt	7440-48-4	66.2	0.0233	0.117		2
06133	Copper	7440-50-8	25.6	0.0770	0.467		2
06135	Lead	7439-92-1	11.5	0.0121	0.233		2
06138	Molybdenum	7439-98-7	10.7	0.0583	0.117		2
06139	Nickel	7440-02-0	28.1	0.117	0.467		2
06141	Selenium	7782-49-2	2.37	0.0467	0.467		2
06142	Silver	7440-22-4	10.9	0.0140	0.117		2
06145	Thallium	7440-28-0	0.705	0.0350	0.117		2
06148	Vanadium	7440-62-2	74.8	0.0257	0.117		2
06149	Zinc	7440-66-6	78.2	0.653	3.50		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.187	0.0034	0.117		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50		1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-141-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 12:31	Angela D Sneeringer	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 13:57	Jason M Long	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 22:11	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/18/2011 14:35	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/13/2011 23:43	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/18/2011 20:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/13/2011 22:08	Elizabeth J Marin	21.82
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:10	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 10:03	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 01:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 01:41	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 04:06	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 23:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 13:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/17/2011 23:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1

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Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281102
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 11:54	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 11:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 11:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/11/2011 14:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281103
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		5.87	23.3		1
07914	Boron	7440-42-8	9.16		1.04	5.83		1
01650	Calcium	7440-70-2	31,600		7.15	23.3		1
01654	Iron	7439-89-6	31,400		5.50	23.3		1
01656	Lithium	7439-93-2	32.6		0.26	2.3		1
01657	Magnesium	7439-95-4	8,090		2.96	11.7		1
06958	Manganese	7439-96-5	396		0.0910	0.583		1
10145	Phosphorus	7723-14-0	638		0.653	11.7		1
01662	Potassium	7440-09-7	5,910		21.0	58.3		1
01667	Sodium	7440-23-5	316		43.5	117		1
07968	Strontium	7440-24-6	64.0		0.0723	0.583		1
06969	Tin	7440-31-5	3.24	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,410		0.443	1.17		1
10146	Zirconium	7440-67-7	6.70		0.980	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.380		0.0714	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.62		0.0952	0.476		2
06126	Barium	7440-39-3	129		0.129	0.476		2
06127	Beryllium	7440-41-7	0.835		0.0190	0.119		2
06128	Cadmium	7440-43-9	0.346		0.0476	0.119		2
06131	Chromium	7440-47-3	36.9		0.143	0.476		2
06132	Cobalt	7440-48-4	12.3		0.0238	0.119		2
06133	Copper	7440-50-8	20.0		0.0785	0.476		2
06135	Lead	7439-92-1	9.79		0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.430		0.0595	0.119		2
06139	Nickel	7440-02-0	23.7		0.119	0.476		2
06141	Selenium	7782-49-2	0.338	J	0.0476	0.476		2
06142	Silver	7440-22-4	0.0187	J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.373		0.0357	0.119		2
06148	Vanadium	7440-62-2	88.9		0.0262	0.119		2
06149	Zinc	7440-66-6	87.9		0.666	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281103
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	499		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	15.8		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	16.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 11:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 11:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 05:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 14:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-141-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281103
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1414 SDG#: DE146-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/13/2011 14:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 14:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 14:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 01:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 01:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/13/2011 11:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 04:24	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 09:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.0	8.3		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.88
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.88
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.88
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.88
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.88
06192	Methylene Chloride	75-09-2	20		0.25	4.2		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.88
06192	Toluene	108-88-3	0.08	J	0.08	4.2		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.88
06192	Trichloroethene	79-01-6	6.3		0.16	4.2		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		23.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.5	J	19.7	39.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.91	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.77	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.70	22.7		1
07914	Boron	7440-42-8	8.47		1.01	5.67		1
01650	Calcium	7440-70-2	26,500		6.95	22.7		1
01654	Iron	7439-89-6	31,500		26.7	113		5
01656	Lithium	7439-93-2	33.3		0.25	2.3		1
01657	Magnesium	7439-95-4	7,900		2.88	11.3		1

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Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	379		0.0884	0.567		1
10145	Phosphorus	7723-14-0	639		0.635	11.3		1
01662	Potassium	7440-09-7	6,140		20.4	56.7		1
01667	Sodium	7440-23-5	265		42.3	113		1
07968	Strontium	7440-24-6	59.8		0.0703	0.567		1
06969	Tin	7440-31-5	2.95	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,440		0.431	1.13		1
10146	Zirconium	7440-67-7	6.58		0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.323		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.87		0.0925	0.462		2
06126	Barium	7440-39-3	113		0.125	0.462		2
06127	Beryllium	7440-41-7	0.716		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.147		0.0462	0.116		2
06131	Chromium	7440-47-3	33.1		0.139	0.462		2
06132	Cobalt	7440-48-4	11.2		0.0231	0.116		2
06133	Copper	7440-50-8	17.4		0.0763	0.462		2
06135	Lead	7439-92-1	9.52		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.424		0.0578	0.116		2
06139	Nickel	7440-02-0	19.5		0.116	0.462		2
06141	Selenium	7782-49-2	0.282	J	0.0462	0.462		2
06142	Silver	7440-22-4	0.0342	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.364		0.0347	0.116		2
06148	Vanadium	7440-62-2	75.2		0.0254	0.116		2
06149	Zinc	7440-66-6	78.9		0.647	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	9.8		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	

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Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	497	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.91	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111311AA	05/11/2011 12:53	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 13:17	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:20	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113024360	05/10/2011 22:25	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113024360	05/10/2011 22:18	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11130SLB026	05/17/2011 22:31	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11131SLB026	05/14/2011 02:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11131SLA026	05/20/2011 01:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11130SLB026	05/10/2011 16:15	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11131SLA026	05/11/2011 08:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11131SLB026	05/11/2011 17:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 01:09	Elizabeth J Marin	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113024360	05/10/2011 22:16	Lois E Hiltz	n.a.

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Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
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Account # 13013

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DUP08 SDG#: DE146-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 10:45	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 01:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 02:00	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 04:31	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111300036A	05/10/2011 23:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 13:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/18/2011 00:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111300036A	05/10/2011 16:30	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111305708002	05/11/2011 12:18	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111305708002	05/11/2011 12:15	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111305708002	05/11/2011 12:15	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111305708002	05/11/2011 06:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111301026001D	05/11/2011 15:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111301026001C	05/13/2011 14:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111301026001B	05/11/2011 15:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281104
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE146-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111301026001A	05/11/2011 15:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111305711001	05/11/2011 06:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111305708002	05/10/2011 20:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111301026001	05/10/2011 20:30	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111305711001	05/11/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11137621202B	05/19/2011 03:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11137621202B	05/19/2011 03:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201A	05/20/2011 12:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 04:36	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 10:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11137621202B	05/17/2011 14:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201A	05/12/2011 12:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11136182101B	05/16/2011 12:00	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11136039401B	05/16/2011 12:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-050911 Water
SSFL Area IV Collocated Soil Sampling
TB-050911

LLI Sample # WW 6281105
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:00

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB509 SDG#: DE146-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-050911 Water
SSFL Area IV Collocated Soil Sampling
TB-050911

LLI Sample # WW 6281105
LLI Group # 1245991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:00

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB509 SDG#: DE146-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111351AA	05/15/2011 11:43	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111302AA	05/10/2011 21:38	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111302AA	05/10/2011 21:38	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111351AA	05/15/2011 11:43	Linda C Pape	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11136A20A	05/17/2011 14:52	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11136A20A	05/17/2011 14:52	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111311AA	Sample number(s): 6281095-6281102,6281104									
Acetone	6.7	U	6.7	8.0	ug/kg	104	110	32-209	5	30
Benzene	0.10	U	0.10	4.0	ug/kg	110	110	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103	101	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	128*	128*	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	94	70-120	0	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	87	32-162	4	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	100	102	46-153	2	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105	97	72-120	9	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111	104	75-120	6	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	96	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	102	103	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	101	101	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	90	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	99	43-146	4	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	104	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	96	95	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	99	78-120	3	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100	97	79-120	3	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	79	77	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	94	97	58-120	2	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	98	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98	100	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	101	101	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100	98	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101	100	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102	100	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	77	77	20-120	0	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107	108	80-120	1	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	101	101	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	98	102	73-123	4	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	104	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108	108	80-120	0	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	102	103	80-120	0	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	94	96	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	105	105	77-120	0	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	99	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	89	91	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11	U	0.11	4.0	ug/kg	105	109	61-126	4	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	91	94	78-120	3	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	102	88	57-120	15	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	98	102	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	76-120	2	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	102	75-120	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	96	96	74-121	0	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	105	108	61-134	2	30
Methylene Chloride	0.92	J	0.24	4.0	ug/kg	99	105	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	112	103	77-120	8	30
Styrene	0.10	U	0.10	4.0	ug/kg	92	92	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	99	99	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104	104	71-123	0	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107	107	77-120	1	30
Toluene	0.09	J	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	88	87	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101	101	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	100	100	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	102	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	90	91	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	104	105	71-123	1	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	101	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105	103	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93	93	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	103	101	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	98	98	80-120	0	30
Batch number: E111302AA	Sample number(s): 6281105									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	119		80-123		
Batch number: E111311AA	Sample number(s): 6281095-6281102,6281104									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	121	70-130	13	30
Batch number: L111351AA	Sample number(s): 6281105									
Acetone	6	U	6.	20	ug/l	170	176	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	0	30
Bromoform	1	U	1.	5	ug/l	83	82	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	110	113	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	97	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	93	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	97	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	102	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	93	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	99	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	96	106	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	94	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	63	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	90	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	96	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	84	86	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	98	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	103	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	96	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	92	95	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	99	100	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	95	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	92	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	95	98	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	98	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	87	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	93	95	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	97	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	89	89	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	97	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	90	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	93	95	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	91	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	91	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	91	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	84	86	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	94	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	108	108	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	90	92	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	97	101	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
Batch number: 11130SLB026	Sample number(s): 6281095-6281102,6281104									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	82		70-130		
Batch number: 11131SLA026	Sample number(s): 6281095-6281102,6281104									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	115		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	106		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.4	J	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 11131SLB026	Sample number(s): 6281095-6281102,6281104									
Acenaphthene	17	U	17.	170	ug/kg	90		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	74		34-94		
Anthracene	17	U	17.	170	ug/kg	94		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	59		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	95		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	89		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	99		67-125		
Benzoic acid	170 U		170.	500	ug/kg	82		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	104		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	66		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	90		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	95		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	98		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	72		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	97		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	103		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	91		64-119		
Isophorone	17	U	17.	170	ug/kg	88		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	76		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	76		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11132A34A	Sample number(s): 6281095-6281102,6281104									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11136A20A	Sample number(s): 6281105									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111370002A	Sample number(s): 6281095-6281102,6281104									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	116		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	93		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	113		73-127		

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4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800	U	800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
Batch number: 111360003A	Sample number(s): 6281095-6281102,6281104									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111300023A	Sample number(s): 6281095									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 111310017A	Sample number(s): 6281095-6281102,6281104									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	70	36-106	15	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111380034A	Sample number(s): 6281095-6281102,6281104									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111300036A	Sample number(s): 6281095-6281102,6281104									
Ethanol	100	U	100.	500	ug/kg	90		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	85		68-129		
Batch number: 111310022A	Sample number(s): 6281095-6281102,6281104									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	87		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111320022A	Sample number(s): 6281095-6281102,6281104									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 111301026001A	Sample number(s): 6281095-6281104									
Antimony	0.0600	U	0.0600	0.200	mg/kg	156		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		83-113		

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Reported: 05/31/11 at 01:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	110		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.0687	J	0.0660	0.400	mg/kg	104		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	95		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	106		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0726	J	0.0220	0.100	mg/kg	103		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111301026001B	Sample number(s): 6281095-6281104									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111301026001C	Sample number(s): 6281095-6281104									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 111301026001D	Sample number(s): 6281095-6281104									
Barium	0.108	U	0.108	0.400	mg/kg	99		81-111		
Batch number: 111305708002	Sample number(s): 6281095-6281104									
Aluminum	6.76	J	5.03	20.0	mg/kg	96		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	110		89-112		
Phosphorus	1.62	J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	101		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	105		86-110		
Tin	1.61	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	115		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111305711001	Sample number(s): 6281095-6281104									
Mercury	0.0028	U	0.0028	0.0992	mg/kg	96		88-123		
Batch number: 11132621201A	Sample number(s): 6281095-6281101,6281103-6281104									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11137621202B	Sample number(s): 6281095-6281101,6281103-6281104									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11139243202A	Sample number(s): 6281095-6281101,6281103-6281104									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11140102201A	Sample number(s): 6281095-6281101,6281103-6281104									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11136039401B	Sample number(s): 6281095-6281100,6281103-6281104									
18a pH by 9045C						100		95-105		
Batch number: 11136182101B	Sample number(s): 6281095-6281100,6281103-6281104									
32a OR Potential						99		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11147162401A	Sample number(s): 6281095-6281104								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111311AA	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
Acetone	101	97	15-210	10	30				
Benzene	113	114	55-143	15	30				
Bromobenzene	109	114	43-139	19	30				
Bromochloromethane	121	116	60-137	11	30				
Bromodichloromethane	97	97	53-136	15	30				
Bromoform	87	86	38-124	13	30				
Bromomethane	90	83	42-168	6	30				
2-Butanone	85	85	37-163	14	30				
n-Butylbenzene	114	112	30-146	13	30				
sec-Butylbenzene	125	129	33-157	18	30				
tert-Butylbenzene	111	117	41-152	20	30				
Carbon Tetrachloride	109	110	45-153	16	30				
Chlorobenzene	106	105	49-135	14	30				
Chloroethane	92	84	39-152	5	30				
2-Chloroethyl Vinyl Ether	83	83	32-139	14	30				
Chloroform	107	107	61-142	15	30				
Chloromethane	104	106	51-163	17	30				
2-Chlorotoluene	114	118	42-146	18	30				
4-Chlorotoluene	109	110	39-145	16	30				
1,2-Dibromo-3-chloropropane	85	89	30-139	20	30				
Dibromochloromethane	99	99	51-128	15	30				
1,2-Dibromoethane	97	99	54-129	17	30				
Dibromomethane	95	96	57-130	16	30				
1,2-Dichlorobenzene	97	98	36-133	15	30				
1,3-Dichlorobenzene	104	104	34-134	15	30				
1,4-Dichlorobenzene	101	103	35-136	17	30				
Dichlorodifluoromethane	87	89	26-151	17	30				
1,1-Dichloroethane	114	115	63-142	16	30				
1,2-Dichloroethane	100	101	68-131	16	30				
1,1-Dichloroethene	115	107	61-149	8	30				
cis-1,2-Dichloroethene	106	108	60-136	16	30				
trans-1,2-Dichloroethene	125	119	59-142	10	30				
1,2-Dichloropropane	111	112	62-135	15	30				
1,3-Dichloropropane	105	106	58-129	16	30				
2,2-Dichloropropane	98	101	53-147	18	30				
1,1-Dichloropropene	111	113	54-145	16	30				
cis-1,3-Dichloropropene	94	95	51-131	15	30				
trans-1,3-Dichloropropene	91	94	49-129	17	30				
Ethylbenzene	106	107	44-141	15	30				
Freon 113	127	120	56-156	9	30				

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Quality Control Summary

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Reported: 05/31/11 at 01:10 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	94	91	10-155	11	30				
2-Hexanone	86	88	32-160	18	30				
Isopropylbenzene	106	108	38-144	16	30				
p-Isopropyltoluene	118	120	29-152	16	30				
Methyl Tertiary Butyl Ether	97	98	55-129	16	30				
4-Methyl-2-pentanone	86	87	46-139	16	30				
Methylene Chloride	156*	37*	61-141	44*	30				
n-Propylbenzene	126	127	39-157	15	30				
Styrene	94	91	35-134	11	30				
1,1,1,2-Tetrachloroethane	101	105	52-130	18	30				
1,1,2,2-Tetrachloroethane	107	112	40-152	19	30				
Tetrachloroethene	117	116	42-149	14	30				
Toluene	111	114	50-146	17	30				
1,2,3-Trichlorobenzene	67	66	10-140	12	30				
1,2,4-Trichlorobenzene	67	66	10-136	12	30				
1,1,1-Trichloroethane	106	109	64-142	17	30				
1,1,2-Trichloroethane	103	104	54-139	15	30				
Trichloroethene	55	128	53-144	50*	30				
Trichlorofluoromethane	102	101	47-163	13	30				
1,2,3-Trichloropropane	108	113	45-154	19	30				
1,2,4-Trimethylbenzene	112	116	37-149	17	30				
1,3,5-Trimethylbenzene	118	123	38-150	18	30				
Vinyl Chloride	103	107	50-154	18	30				
m+p-Xylene	107	108	44-137	15	30				
o-Xylene	101	101	42-137	15	30				
Batch number: E111302AA	Sample number(s): 6281105 UNSPK: P279836								
1,4-Dioxane	121	111	73-138	6	30				
Batch number: E111311AA	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
1,4-Dioxane	97	91	70-130	10	30				
Batch number: 11130SLB026	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
N-Nitrosodimethylamine	77	69*	70-130	10	30				
Batch number: 11131SLA026	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
Acenaphthene	92	75	63-105	20	30				
Acenaphthylene	94	77	67-114	19	30				
Anthracene	99	85	60-122	15	30				
Benzo(a)anthracene	101	91	59-128	10	30				
Benzo(a)pyrene	104	92	45-138	11	30				
Benzo(b)fluoranthene	105	96	43-155	9	30				
Benzo(g,h,i)perylene	102	90	33-141	12	30				
Benzo(k)fluoranthene	105	91	42-144	14	30				
Butylbenzylphthalate	106	95	57-173	11	30				
Di-n-butylphthalate	108	95	65-148	13	30				
Chrysene	98	86	48-134	12	30				
Dibenz(a,h)anthracene	110	96	22-133	13	30				
Diethylphthalate	103	87	70-136	17	30				
Dimethylphthalate	98	84	74-118	15	30				
Bis(2-Ethylhexyl)phthalate	114	104	39-167	9	30				
Fluoranthene	104	93	26-166	10	30				
Fluorene	98	82	66-122	17	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	107	95	21-143	12	30				
1-Methylnaphthalene	96	67*	72-123	35*	30				
2-Methylnaphthalene	87	48*	64-103	58*	30				
Naphthalene	96	76	61-102	23	30				
N-Nitrosodimethylamine	90	77	48-113	15	30				
Di-n-octylphthalate	99	90	40-192	7	30				
Phenanthrene	94	87	12-165	7	30				
Pyrene	95	84	15-153	13	30				
Batch number: 11131SLB026	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
Acenaphthene	83	86	75-115	4	30				
Acenaphthylene	93	95	81-110	1	30				
Aniline	79	87	35-95	9	30				
Anthracene	92	92	75-115	1	30				
Benzidine	62	68	35-141	9	30				
Benzo(a)anthracene	93	95	65-122	2	30				
Benzo(a)pyrene	92	91	57-126	0	30				
Benzo(b)fluoranthene	87	90	59-125	3	30				
Benzo(g,h,i)perylene	98	100	59-127	2	30				
Benzo(k)fluoranthene	90	95	56-132	5	30				
Benzoic acid	53	58	10-173	9	30				
Benzyl alcohol	77	90	67-115	15	30				
4-Bromophenyl-phenylether	91	90	67-129	1	30				
Butylbenzylphthalate	113	116	73-134	3	30				
Di-n-butylphthalate	98	101	67-123	2	30				
Carbazole	97	99	64-120	2	30				
4-Chloro-3-methylphenol	95	97	76-110	2	30				
4-Chloroaniline	87	92	23-95	6	30				
bis(2-Chloroethoxy)methane	86	89	75-104	3	30				
bis(2-Chloroethyl)ether	84	89	60-116	6	30				
bis(2-Chloroisopropyl)ether	88	93	55-142	6	30				
2-Chloronaphthalene	72	74	50-141	2	30				
2-Chlorophenol	97	105	73-121	8	30				
4-Chlorophenyl-phenylether	87	90	80-109	3	30				
Chrysene	96	96	62-128	0	30				
Dibenz(a,h)anthracene	96	99	65-125	3	30				
Dibenzofuran	91	95	71-112	3	30				
1,2-Dichlorobenzene	83	87	66-108	5	30				
1,3-Dichlorobenzene	81	84	63-109	3	30				
1,4-Dichlorobenzene	80	85	70-100	5	30				
3,3'-Dichlorobenzidine	86	89	16-119	3	30				
2,4-Dichlorophenol	100	104	78-117	4	30				
Diethylphthalate	91	95	66-118	4	30				
2,4-Dimethylphenol	91	93	78-110	2	30				
3,5-Dimethylphenol	93	95	70-130	2	30				
Dimethylphthalate	93	94	64-118	1	30				
4,6-Dinitro-2-methylphenol	37	40	24-116	7	30				
2,4-Dinitrophenol	16*	17*	20-143	5	30				
2,4-Dinitrotoluene	94	95	73-113	1	30				
2,6-Dinitrotoluene	92	95	69-123	3	30				
1,2-Diphenylhydrazine	93	93	71-129	0	30				
bis(2-Ethylhexyl)phthalate	114	115	63-122	1	30				
Fluoranthene	90	92	73-112	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	94	94	77-111	0	30				
Hexachlorobenzene	98	99	77-114	1	30				
Hexachlorobutadiene	81	82	62-120	2	30				
Hexachlorocyclopentadiene	50	55	10-153	10	30				
Hexachloroethane	77	81	57-109	4	30				
Indeno(1,2,3-cd)pyrene	95	96	61-126	2	30				
Isophorone	86	88	73-102	2	30				
1-Methylnaphthalene	93	96	73-112	4	30				
2-Methylnaphthalene	87	89	76-114	3	30				
2-Methylphenol	106	113*	75-111	6	30				
4-Methylphenol	102	109	71-111	7	30				
Naphthalene	87	89	72-116	3	30				
2-Nitroaniline	94	98	67-125	4	30				
3-Nitroaniline	92	95	59-122	3	30				
4-Nitroaniline	77	84	52-112	9	30				
Nitrobenzene	83	87	72-106	4	30				
2-Nitrophenol	89	94	74-115	5	30				
4-Nitrophenol	79	82	54-113	4	30				
N-Nitroso-di-n-propylamine	85	91	60-116	7	30				
N-Nitrosodimethylamine	83	87	47-116	5	30				
N-Nitrosodiphenylamine	101	101	86-145	0	30				
Di-n-octylphthalate	115	118	56-126	3	30				
Pentachlorophenol	64	66	28-127	3	30				
Phenanthrene	91	92	65-125	2	30				
Phenol	90	97	58-126	8	30				
Pyrene	106	107	74-126	1	30				
1,2,4-Trichlorobenzene	84	87	72-115	4	30				
2,4,5-Trichlorophenol	96	98	78-109	3	30				
2,4,6-Trichlorophenol	94	97	77-115	3	30				
Batch number: 11132A34A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
9a TPH by EPA 8015B Gas C5-C12	123*	111	39-118	20	30				
Batch number: 111370002A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
4-Amino-2,6-Dinitrotoluene	94	77*	80-127	27	50				
2-Amino-4,6-Dinitrotoluene	93	76*	80-137	27	50				
1,3-Dinitrobenzene	101	83	38-166	27	50				
2,4-Dinitrotoluene	92	76*	80-131	26	50				
2,6-Dinitrotoluene	94	77*	80-127	27	50				
HMX	73	59*	63-128	29	50				
Nitrobenzene	98	82	80-125	26	50				
Nitroglycerin	87	71*	80-120	27	50				
2-Nitrotoluene	94	79*	80-122	25	50				
3-Nitrotoluene	97	82	72-119	25	50				
4-Nitrotoluene	92	78*	80-125	25	50				
PETN	103	82	80-121	30	50				
RDX	81	62*	75-129	34	50				
Tetryl	68	58	55-174	23	50				
1,3,5-Trinitrobenzene	82	68*	82-126	26	50				
2,4,6-Trinitrotoluene	94	78*	82-130	27	50				
Batch number: 111360003A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
25a Formaldehyde 8315A	96	99	80-120	2	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111300023A	Sample number(s): 6281095 UNSPK: P273942								
6a Perchlorate EPA 6850	98	104	80-120	6	20				
Batch number: 111310017A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
PCB-1016	111	131	29-146	16	50				
PCB-1260	99	110	39-149	10	50				
Batch number: 111380034A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111300036A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
Ethanol	74	72	48-130	3	20				
Isopropanol	75	74	12-149	2	20				
Methanol	73	71	43-138	4	20				
Batch number: 111310022A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
Diethylene glycol	40*	50*	59-109	23*	20				
Ethylene glycol	55*	68	63-107	20	20				
Propylene glycol	62*	73	63-107	18	20				
Batch number: 111320022A	Sample number(s): 6281095-6281102,6281104 UNSPK: 6281100								
m-Terphenyl	77	78	75-125	2	20				
o-Terphenyl	89	90	75-125	1	20				
p-Terphenyl	85	85	75-125	1	20				
Batch number: 111301026001A	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Antimony	40*	37*	75-125	5	20	0.196	0.316	47* (1)	20
Arsenic	88	115	75-125	7	20	4.99	7.17	36*	20
Beryllium	86	81	75-125	4	20	0.494	0.695	34*	20
Cadmium	89	94	75-125	3	20	0.135	0.288	73* (1)	20
Chromium	72*	60*	75-125	4	20	23.0	30.7	28*	20
Cobalt	101	98	75-125	4	20	7.73	10.2	28*	20
Copper	91	93	75-125	0	20	12.2	16.6	31*	20
Lead	114	117	75-125	0	20	6.15	8.15	28*	20
Nickel	98	96	75-125	1	20	14.0	19.7	34*	20
Silver	94	93	75-125	2	20	0.0241 J	0.0156 J	43* (1)	20
Thallium	99	91	75-125	6	20	0.234	0.311	28* (1)	20
Vanadium	132 (2)	107 (2)	75-125	4	20	51.9	74.0	35*	20
Zinc	85 (2)	75 (2)	75-125	2	20	57.7	73.1	24*	20
Batch number: 111301026001B	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Selenium	89	89	75-125	0	20	0.240 J	0.281 J	16 (1)	20
Batch number: 111301026001C	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Molybdenum	91	88	75-125	4	20	0.331	0.357	8 (1)	20
Batch number: 111301026001D	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Barium	91 (2)	110 (2)	75-125	2	20	77.3	107	33*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111305708002	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Aluminum	3500 (2)	3175 (2)	75-125	3	20	18,500	19,200	4	20
Boron	102	102	84-115	0	20	6.24	7.62	20 (1)	20
Calcium	-421 (2)	2935 (2)	75-125	43*	20	25,600	26,300	2	20
Iron	2532 (2)	1106 (2)	75-125	5	20	25,600	26,100	2	20
Lithium	107	106	82-114	0	20	26.7	27.1	2	20
Magnesium	446 (2)	393 (2)	75-125	1	20	6,640	6,730	1	20
Manganese	117 (2)	147 (2)	75-125	4	20	301	329	9	20
Phosphorus	86 (2)	73 (2)	75-125	2	20	538	531	1	20
Potassium	198 (2)	177 (2)	75-125	3	20	4,750	4,920	3	20
Sodium	106	106	75-125	0	20	252	263	4 (1)	20
Strontium	102	120*	75-115	11	20	48.6	53.3	9	20
Tin	87	88	80-110	1	20	2.61 J	2.70 J	3 (1)	20
Titanium	471 (2)	431 (2)	75-125	2	20	1,130	1,170	4	20
Zirconium	85	85	75-125	0	20	4.90 J	5.58	13 (1)	20
Batch number: 111305711001	Sample number(s): 6281095-6281104 UNSPK: 6281100 BKG: 6281100								
Mercury	94	96	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11132621201A	Sample number(s): 6281095-6281101,6281103-6281104 UNSPK: 6281100 BKG: 6281100								
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11137621202B	Sample number(s): 6281095-6281101,6281103-6281104 UNSPK: 6281100 BKG: 6281100								
11a Anions by 300.0 - Fluoride	61*		80-120			2.9	2.3	23* (1)	20
11a Anions by 300.0 - Nitrate	116		80-120			1.7	1.8	5 (1)	20
Batch number: 11139243202A	Sample number(s): 6281095-6281101,6281103-6281104 UNSPK: 6281100 BKG: 6281100								
3a Cr VI by EPA 7199	94		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11140102201A	Sample number(s): 6281095-6281101,6281103-6281104 UNSPK: 6281100 BKG: 6281100								
17a Cyanide by 9012B	101		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11136039401B	Sample number(s): 6281095-6281100,6281103-6281104 BKG: 6281100								
18a pH by 9045C						8.05	8.18	2	3
Batch number: 11136182101B	Sample number(s): 6281095-6281100,6281103-6281104 BKG: 6281100								
32a OR Potential						511	499	2	6
Batch number: 11147162401A	Sample number(s): 6281095-6281104 BKG: 6281100								
28a Moisture Content by 160.3						16.8	15.8	6	20
Moisture Content by 160.3						16.8	15.8	6	20
Moisture Content by 160.3						16.8	15.8	6	20

Surrogate Quality Control

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6281095	98	101	105	90
6281096	98	102	106	88
6281097	100	104	105	89
6281098	97	100	107	86
6281099	100	105	105	90
6281100	99	100	108	84
6281101	98	99	111	95
6281102	97	102	113	94
6281104	97	105	105	90
Blank	99	102	102	91
LCS	99	107	105	99
LCSD	100	107	105	99
MS	98	99	111	95
MSD	97	102	113	94
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111302AA

	Toluene-d8
6281105	102
Blank	102
LCS	102
MS	101
MSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111311AA

	Toluene-d8
6281095	100
6281096	100
6281097	99
6281098	100
6281099	100
6281100	100
6281101	99
6281102	99
6281104	100
Blank	100
LCS	99
LCSD	101
MS	99
MSD	99
Limits:	70-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6281105	104	101	99	98
Blank	104	104	99	97
LCS	105	104	100	102
LCSD	103	104	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11130SLB026

	N-Nitrosodimethylamine-d6
6281095	124
6281096	122
6281097	130
6281098	118
6281099	116
6281100	120
6281101	121
6281102	116
6281104	217*
Blank	98
LCS	99
MS	1211*
MSD	1165*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11131SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6281095	78	81	100
6281096	75	76	92
6281097	79	80	96
6281098	86	90	102
6281099	88	87	94
6281100	93	91	100
6281101	108	95	104
6281102	93	80	92
6281104	87	88	96
Blank	98	94	101
LCS	110	97	100
MS	108	95	104
MSD	93	80	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11131SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6281095	83	84	75	75	79	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

6281096	83	83	74	75	80	87
6281097	84	84	79	77	84	91
6281098	87	88	81	77	82	91
6281099	83	84	79	76	83	88
6281100	73	74	66	62	66	72
6281101	86	88	85	77	82	91
6281102	93	94	90	80	84	92
6281104	82	84	74	73	79	87
Blank	80	83	95	80	87	84
LCS	81	83	98	81	90	84
MS	86	88	85	77	82	91
MSD	93	94	90	80	84	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11132A34A

	Trifluorotoluene-F
6281095	73
6281096	75
6281097	74
6281098	75
6281099	80
6281100	75
6281101	77
6281102	72
6281104	78
Blank	78
LCS	86
MS	77
MSD	72
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11136A20A

	Trifluorotoluene-F
6281105	77
Blank	76
LCS	106
LCSD	109
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111310017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6281095	99	85
6281096	88	73
6281097	106	81
6281098	120	89
6281099	108	95
6281100	110	99
6281101	105	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

6281102	112	84
6281104	101	77
Blank	118	96
LCS	106	75
LCSD	96	72
MS	105	79
MSD	112	84
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111360003A

	Butyraldehyde
6281095	87
6281096	92
6281097	93
6281098	94
6281099	72
6281100	99
6281101	99
6281102	99
6281104	83
Blank	102
LCS	99
MS	99
MSD	99
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111370002A

	2-Nitro-m-xylene
6281095	118
6281096	111
6281097	94
6281098	112
6281099	108
6281100	100
6281101	98
6281102	99
6281104	110
Blank	106
LCS	112
LCSD	111
MS	98
MSD	99
Limits:	80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111300036A

	Acetone
6281095	83
6281096	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

6281097	82
6281098	79
6281099	78
6281100	77
6281101	78
6281102	77
6281104	83
Blank	100
LCS	97
MS	78
MSD	77
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111310022A

Tetramethylene glycol

6281095	80
6281096	72
6281097	85
6281098	74
6281099	71
6281100	70
6281101	82
6281102	81
6281104	71
Blank	87
LCS	97
MS	82
MSD	81
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111320022A

n-Triacontane-d62

6281095	75
6281096	75
6281097	73
6281098	71
6281099	76
6281100	68
6281101	69
6281102	68
6281104	72
Blank	77
LCS	77
MS	69
MSD	68
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

Chlorobenzene Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245991
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

6281095	66	73
6281096	63	70
6281097	63	72
6281098	65	75
6281099	67	80
6281100	60	71
6281101	66	75
6281102	67	76
6281104	60	80
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1245991 6281095-105

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCHs-EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: TKnapp																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-078-SA8N-SB-4.5	05.09.11	0840	SOIL	NONE	5-Encores										X	X	X										
SL-078-SA8N-SB-4.0-5.0	05.09.11	0845	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-087-SA8N-SB-4.5	05.09.11	1510	SOIL	NONE	5-Encores										X	X	X										
SL-087-SA8N-SB-4.0-5.0	05.09.11	1514	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-087-SA8N-SB-9.5	05.09.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-087-SA8N-SB-9.0-10.0	05.09.11	1512	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-088-SA8N-SB-3.5	05.09.11	1410	SOIL	NONE	5-Encores										X	X	X										
SL-088-SA8N-SB-3.0-4.0	05.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SB-2.5	05.09.11	1320	SOIL	NONE	5-Encores										X	X	X										
SL-135-SA8N-SB-2.0-3.0	05.09.11	1325	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-141-SA8N-SB-4.5MS	05.09.11	0935	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-141-SA8N-SB-4.0-5.0MS	05.09.11	0940	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
DUP08-SA8N-QC-050911	05.09.11	0945	SOIL	NONE	5-Encores										X	X	X										
DUP08-SA8N-QC-050911	05.09.11	0945	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-050911	05.09.11	0800	WATER	NONE	4-40 mL vials										X	X	X										
Relinquished by: (Signature)	Date/Time 5/09/2011 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 5/10/11 1015		Airbill No.(s) 8695 1441 7674, 7685																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/10/2011
Group Number: 1245995
SDG: DX080
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-078-SA8N-SB-4.0-5.0 Soil	6281118
SL-087-SA8N-SB-4.0-5.0 Soil	6281119
SL-087-SA8N-SB-9.0-10.0 Soil	6281120
SL-088-SA8N-SB-3.0-4.0 Soil	6281121
SL-135-SA8N-SB-2.0-3.0 Soil	6281122
SL-141-SA8N-SB-4.0-5.0 Soil	6281123
SL-141-SA8N-SB-4.0-5.0MS Soil	6281124
SL-141-SA8N-SB-4.0-5.0MSD Soil	6281125
DUP08-SA8N-QC-050911 Soil	6281126

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281118
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0784 SDG#: DX080-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281118
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0784 SDG#: DX080-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0251 U	0.0251	1.09	1
11031	12378-PeCDD	40321-76-4	0.0338 JBQ	0.0259	5.45	1
11031	123478-HxCDD	39227-28-6	0.0299 JB	0.0190	5.45	1
11031	123678-HxCDD	57653-85-7	0.0520 JBQ	0.0200	5.45	1
11031	123789-HxCDD	19408-74-3	0.0599 JBQ	0.0194	5.45	1
11031	1234678-HpCDD	35822-46-9	0.360 JBQ	0.0305	5.45	1
11031	OCDD	3268-87-9	1.47 JB	0.0218	10.9	1
11031	2378-TCDF	51207-31-9	0.0276 U	0.0276	1.09	1
11031	12378-PeCDF	57117-41-6	0.0485 JBQ	0.0162	5.45	1
11031	23478-PeCDF	57117-31-4	0.0806 JBQ	0.0151	5.45	1
11031	123478-HxCDF	70648-26-9	0.0631 JBQ	0.0171	5.45	1
11031	123678-HxCDF	57117-44-9	0.0537 JBQ	0.0147	5.45	1
11031	123789-HxCDF	72918-21-9	0.0839 JBQ	0.0190	5.45	1
11031	234678-HxCDF	60851-34-5	0.0680 JB	0.0156	5.45	1
11031	1234678-HpCDF	67562-39-4	0.176 JB	0.0105	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0727 JB	0.0153	5.45	1
11031	OCDF	39001-02-0	0.367 JB	0.0372	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281118
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0784 SDG#: DX080-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA8N-SB-4.0-5.0

LLI Sample # SW 6281118
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 08:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0784 SDG#: DX080-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/20/2011 19:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281119
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0874 SDG#: DX080-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281119
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0874 SDG#: DX080-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0234 U	0.0234	1.13	1
11031	12378-PeCDD	40321-76-4	0.0366 JBQ	0.0225	5.66	1
11031	123478-HxCDD	39227-28-6	0.0282 JBQ	0.0231	5.66	1
11031	123678-HxCDD	57653-85-7	0.179 JB	0.0231	5.66	1
11031	123789-HxCDD	19408-74-3	0.211 JBQ	0.0225	5.66	1
11031	1234678-HpCDD	35822-46-9	0.313 JB	0.0263	5.66	1
11031	OCDD	3268-87-9	0.994 JB	0.0246	11.3	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.13	1
11031	12378-PeCDF	57117-41-6	0.0700 JBQ	0.0136	5.66	1
11031	23478-PeCDF	57117-31-4	0.0713 JBQ	0.0140	5.66	1
11031	123478-HxCDF	70648-26-9	0.0511 JB	0.0170	5.66	1
11031	123678-HxCDF	57117-44-9	0.0498 JB	0.0145	5.66	1
11031	123789-HxCDF	72918-21-9	0.261 JB	0.0195	5.66	1
11031	234678-HxCDF	60851-34-5	0.0873 JB	0.0148	5.66	1
11031	1234678-HpCDF	67562-39-4	0.151 JB	0.00855	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0550 JB	0.0148	5.66	1
11031	OCDF	39001-02-0	0.226 JBQ	0.0306	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281119
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0874 SDG#: DX080-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-4.0-5.0

LLI Sample # SW 6281119
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:14

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0874 SDG#: DX080-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/20/2011 20:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281120
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0879 SDG#: DX080-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281120
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0879 SDG#: DX080-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0481 JBQ	0.0236	1.14	1
11031	12378-PeCDD	40321-76-4	0.0789 JBQ	0.0295	5.72	1
11031	123478-HxCDD	39227-28-6	0.0364 JBQ	0.0244	5.72	1
11031	123678-HxCDD	57653-85-7	0.105 JB	0.0241	5.72	1
11031	123789-HxCDD	19408-74-3	0.132 JB	0.0238	5.72	1
11031	1234678-HpCDD	35822-46-9	0.254 JBQ	0.0393	5.72	1
11031	OCDD	3268-87-9	0.691 JB	0.0367	11.4	1
11031	2378-TCDF	51207-31-9	0.0223 U	0.0223	1.14	1
11031	12378-PeCDF	57117-41-6	0.0502 JBQ	0.0157	5.72	1
11031	23478-PeCDF	57117-31-4	0.0553 JBQ	0.0158	5.72	1
11031	123478-HxCDF	70648-26-9	0.0413 JBQ	0.0178	5.72	1
11031	123678-HxCDF	57117-44-9	0.0421 JBQ	0.0150	5.72	1
11031	123789-HxCDF	72918-21-9	0.186 JBQ	0.0178	5.72	1
11031	234678-HxCDF	60851-34-5	0.0313 JB	0.0164	5.72	1
11031	1234678-HpCDF	67562-39-4	0.108 JBQ	0.0132	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0630 JBQ	0.0210	5.72	1
11031	OCDF	39001-02-0	0.281 JBQ	0.0525	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-087-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281120
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0879 SDG#: DX080-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA8N-SB-9.0-10.0

LLI Sample # SW 6281120
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 15:12

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0879 SDG#: DX080-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/20/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281121
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0883 SDG#: DX080-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281121
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0883 SDG#: DX080-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0314	JBQ	0.0252	1.13	1
11031	12378-PeCDD	40321-76-4	0.218	JBQ	0.0340	5.67	1
11031	123478-HxCDD	39227-28-6	0.127	JB	0.0309	5.67	1
11031	123678-HxCDD	57653-85-7	0.414	JBQ	0.0328	5.67	1
11031	123789-HxCDD	19408-74-3	0.559	JBQ	0.0305	5.67	1
11031	1234678-HpCDD	35822-46-9	0.357	JB	0.0419	5.67	1
11031	OCDD	3268-87-9	1.06	JB	0.0385	11.3	1
11031	2378-TCDF	51207-31-9	0.0259	U	0.0259	1.13	1
11031	12378-PeCDF	57117-41-6	0.211	JBQ	0.0190	5.67	1
11031	23478-PeCDF	57117-31-4	0.204	JB	0.0182	5.67	1
11031	123478-HxCDF	70648-26-9	0.194	JB	0.0300	5.67	1
11031	123678-HxCDF	57117-44-9	0.181	JB	0.0260	5.67	1
11031	123789-HxCDF	72918-21-9	0.552	JBQ	0.0254	5.67	1
11031	234678-HxCDF	60851-34-5	0.144	JBQ	0.0241	5.67	1
11031	1234678-HpCDF	67562-39-4	0.220	JBQ	0.0147	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0905	JBQ	0.0202	5.67	1
11031	OCDF	39001-02-0	0.307	JB	0.0530	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281121
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0883 SDG#: DX080-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA8N-SB-3.0-4.0

LLI Sample # SW 6281121
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 14:20

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0883 SDG#: DX080-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/20/2011 22:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281122
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1352 SDG#: DX080-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281122
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1352 SDG#: DX080-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0292	U	0.0292	1.07	1
11031	12378-PeCDD	40321-76-4	0.500	JB	0.0455	5.37	1
11031	123478-HxCDD	39227-28-6	0.365	JB	0.0528	5.37	1
11031	123678-HxCDD	57653-85-7	0.813	JBQ	0.0537	5.37	1
11031	123789-HxCDD	19408-74-3	0.844	JBQ	0.0527	5.37	1
11031	1234678-HpCDD	35822-46-9	9.70	B	0.0572	5.37	1
11031	OCDD	3268-87-9	112	B	0.0389	10.7	1
11031	2378-TCDF	51207-31-9	0.154	JQ	0.0554	1.07	1
11031	12378-PeCDF	57117-41-6	0.637	JB	0.0288	5.37	1
11031	23478-PeCDF	57117-31-4	0.616	JB	0.0281	5.37	1
11031	123478-HxCDF	70648-26-9	0.484	JB	0.0356	5.37	1
11031	123678-HxCDF	57117-44-9	0.450	JB	0.0317	5.37	1
11031	123789-HxCDF	72918-21-9	0.520	JB	0.0385	5.37	1
11031	234678-HxCDF	60851-34-5	0.335	JB	0.0312	5.37	1
11031	1234678-HpCDF	67562-39-4	1.21	JB	0.0188	5.37	1
11031	1234789-HpCDF	55673-89-7	0.208	JBQ	0.0293	5.37	1
11031	OCDF	39001-02-0	2.44	JB	0.0355	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	87	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281122
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1352 SDG#: DX080-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SB-2.0-3.0

LLI Sample # SW 6281122
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 13:25

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1352 SDG#: DX080-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/20/2011 23:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281123
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281123
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0308 JBQ	0.0181	1.19	1
11031	12378-PeCDD	40321-76-4	0.332 JB	0.0294	5.95	1
11031	123478-HxCDD	39227-28-6	0.168 JB	0.0293	5.95	1
11031	123678-HxCDD	57653-85-7	0.206 JB	0.0290	5.95	1
11031	123789-HxCDD	19408-74-3	0.336 JB	0.0292	5.95	1
11031	1234678-HpCDD	35822-46-9	0.708 JB	0.0394	5.95	1
11031	OCDD	3268-87-9	6.16 JB	0.0261	11.9	1
11031	2378-TCDF	51207-31-9	0.0838 JQ	0.0262	1.19	1
11031	12378-PeCDF	57117-41-6	0.272 JBQ	0.0163	5.95	1
11031	23478-PeCDF	57117-31-4	0.298 JB	0.0163	5.95	1
11031	123478-HxCDF	70648-26-9	0.226 JBQ	0.0243	5.95	1
11031	123678-HxCDF	57117-44-9	0.192 JB	0.0202	5.95	1
11031	123789-HxCDF	72918-21-9	0.279 JB	0.0263	5.95	1
11031	234678-HxCDF	60851-34-5	0.175 JB	0.0233	5.95	1
11031	1234678-HpCDF	67562-39-4	0.305 JB	0.0126	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0786 JB	0.0222	5.95	1
11031	OCDF	39001-02-0	0.687 JBQ	0.0381	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281123
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281123
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 00:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281124
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281124
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1	B	0.0442	1.20	1
11031	12378-PeCDD	40321-76-4	114	B	0.0642	6.01	1
11031	123478-HxCDD	39227-28-6	111	B	0.0440	6.01	1
11031	123678-HxCDD	57653-85-7	110	B	0.0448	6.01	1
11031	123789-HxCDD	19408-74-3	110	B	0.0431	6.01	1
11031	1234678-HpCDD	35822-46-9	110	B	0.0700	6.01	1
11031	OCDD	3268-87-9	223	B	0.0636	12.0	1
11031	2378-TCDF	51207-31-9	23.4		0.0594	1.20	1
11031	12378-PeCDF	57117-41-6	109	B	0.0424	6.01	1
11031	23478-PeCDF	57117-31-4	108	B	0.0430	6.01	1
11031	123478-HxCDF	70648-26-9	110	B	0.0881	6.01	1
11031	123678-HxCDF	57117-44-9	109	B	0.0727	6.01	1
11031	123789-HxCDF	72918-21-9	110	B	0.0977	6.01	1
11031	234678-HxCDF	60851-34-5	113	B	0.0742	6.01	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0563	6.01	1
11031	1234789-HpCDF	55673-89-7	110	B	0.0883	6.01	1
11031	OCDF	39001-02-0	225	B	0.0851	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281124
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281124
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 01:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281125
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281125
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.8	B	0.0415	1.19	1
11031	12378-PeCDD	40321-76-4	114	B	0.0695	5.95	1
11031	123478-HxCDD	39227-28-6	112	B	0.0531	5.95	1
11031	123678-HxCDD	57653-85-7	108	B	0.0537	5.95	1
11031	123789-HxCDD	19408-74-3	111	B	0.0543	5.95	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0930	5.95	1
11031	OCDD	3268-87-9	227	B	0.0758	11.9	1
11031	2378-TCDF	51207-31-9	23.2		0.0602	1.19	1
11031	12378-PeCDF	57117-41-6	108	B	0.0490	5.95	1
11031	23478-PeCDF	57117-31-4	108	B	0.0486	5.95	1
11031	123478-HxCDF	70648-26-9	112	B	0.0863	5.95	1
11031	123678-HxCDF	57117-44-9	107	B	0.0722	5.95	1
11031	123789-HxCDF	72918-21-9	110	B	0.112	5.95	1
11031	234678-HxCDF	60851-34-5	113	B	0.0817	5.95	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0567	5.95	1
11031	1234789-HpCDF	55673-89-7	110	B	0.104	5.95	1
11031	OCDF	39001-02-0	221	B	0.113	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	100	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA8N-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281125
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SB-4.0-5.0

LLI Sample # SW 6281125
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:40

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1414 SDG#: DX080-06MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 02:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281126
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX080-07FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281126
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX080-07FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0395	JBQ	0.0196	1.16	1
11031	12378-PeCDD	40321-76-4	0.201	JBQ	0.0282	5.78	1
11031	123478-HxCDD	39227-28-6	0.0931	JBQ	0.0249	5.78	1
11031	123678-HxCDD	57653-85-7	0.176	JBQ	0.0249	5.78	1
11031	123789-HxCDD	19408-74-3	0.268	JBQ	0.0241	5.78	1
11031	1234678-HpCDD	35822-46-9	3.05	JB	0.0481	5.78	1
11031	OCDD	3268-87-9	49.0	B	0.0420	11.6	1
11031	2378-TCDF	51207-31-9	0.0244	JQ	0.0239	1.16	1
11031	12378-PeCDF	57117-41-6	0.186	JBQ	0.0158	5.78	1
11031	23478-PeCDF	57117-31-4	0.164	JBQ	0.0157	5.78	1
11031	123478-HxCDF	70648-26-9	0.157	JBQ	0.0249	5.78	1
11031	123678-HxCDF	57117-44-9	0.134	JBQ	0.0208	5.78	1
11031	123789-HxCDF	72918-21-9	0.209	JBQ	0.0231	5.78	1
11031	234678-HxCDF	60851-34-5	0.115	JB	0.0199	5.78	1
11031	1234678-HpCDF	67562-39-4	0.362	JBQ	0.0184	5.78	1
11031	1234789-HpCDF	55673-89-7	0.139	JBQ	0.0261	5.78	1
11031	OCDF	39001-02-0	0.857	JB	0.0446	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281126
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX080-07FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA8N-QC-050911 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA8N-QC-050911

LLI Sample # SW 6281126
LLI Group # 1245995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/09/2011 09:45

Submitted: 05/10/2011 10:15
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX080-07FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 06:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245995
Reported: 05/31/11 at 01:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11147162401A	Sample number(s): 6281118-6281126								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11139001	Sample number(s): 6281118-6281126								
2378-TCDD	0.0310 J	0.0196	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0269 J	0.0233	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0286 J	0.0171	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0490 J	0.0172	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0386 J	0.0168	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.202 J	0.0236	5.00	ng/kg	93		70-140		
OCDD	0.415 J	0.0207	10.0	ng/kg	92		78-144		
2378-TCDF	0.0236 U	0.0236	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0550 J	0.0134	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0728 J	0.0122	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0533 J	0.0127	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0378 J	0.0113	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0750 J	0.0146	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0637 J	0.0127	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.129 J	0.00880	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0930 J	0.0141	5.00	ng/kg	91		78-138		
OCDF	0.257 J	0.0265	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147162401A	Sample number(s): 6281118-6281126 BKG: P281100								
Moisture Content by 160.3						16.8	15.8	6	20
Batch number: 11139001	Sample number(s): 6281118-6281126 UNSPK: 6281123								
2378-TCDD	96	96	67-158	1	25				
12378-PeCDD	94	96	70-142	0	25				
123478-HxCDD	92	94	70-164	1	25				
123678-HxCDD	92	91	76-134	2	25				
123789-HxCDD	92	93	64-162	1	25				
1234678-HpCDD	91	93	70-140	1	25				
OCDD	90	93	78-144	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245995
Reported: 05/31/11 at 01:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	97	97	75-158	1	25				
12378-PeCDF	90	91	80-134	0	25				
23478-PeCDF	90	91	68-160	0	25				
123478-HxCDF	92	94	72-134	1	25				
123678-HxCDF	90	90	84-130	2	25				
123789-HxCDF	91	92	78-130	0	25				
234678-HxCDF	94	95	70-156	0	25				
1234678-HpCDF	88	88	82-122	1	25				
1234789-HpCDF	91	92	78-138	0	25				
OCDF	93	92	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11139001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6281118	62	72	65	71	67	65
6281119	69	78	68	78	74	68
6281120	71	72	70	79	75	79
6281121	71	70	60	67	74	81
6281122	71	77	73	79	77	77
6281123	73	73	69	79	73	72
6281124	70	70	67	79	77	69
6281125	81	82	83	100	87	76
6281126	78	79	68	77	83	82
Blank	77	86	78	86	80	80
MS	70	70	67	79	77	69
MSD	81	82	83	100	87	76
OPR	67	75	65	74	70	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6281118	83	72	80	88	73	71
6281119	98	74	78	88	84	82
6281120	88	67	62	85	74	80
6281121	74	70	66	89	72	74
6281122	92	80	87	85	78	82
6281123	93	71	72	89	78	79
6281124	89	70	65	84	73	82
6281125	105	75	70	100	86	92
6281126	83	76	72	92	78	85
Blank	103	86	93	105	91	87
MS	89	70	65	84	73	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1245995
Reported: 05/31/11 at 01:07 PM

Surrogate Quality Control

MSD	105	75	70	100	86	92
OPR	94	73	79	95	80	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6281118	71	72	80	90	60	73
6281119	81	83	89	98	65	84
6281120	80	80	80	75	69	78
6281121	74	78	78	76	70	75
6281122	81	83	88	99	70	79
6281123	81	80	85	89	69	80
6281124	80	82	82	81	67	77
6281125	94	92	90	85	79	89
6281126	85	86	85	81	79	82
Blank	88	89	98	110	72	88
MS	80	82	82	81	67	77
MSD	94	92	90	85	79	89
OPR	78	79	86	97	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1245995 6281.118-26

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures: TRnapr							*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-ERH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-078-SA8N-SB-4.5	05.09.11	0840	SOIL	NONE	5-Encores											X	X	X										
SL-078-SA8N-SB-4.0-5.0	05.09.11	0845	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-087-SA8N-SB-4.5	05.09.11	1510	SOIL	NONE	5-Encores										X	X	X											
SL-087-SA8N-SB-4.0-5.0	05.09.11	1514	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-087-SA8N-SB-9.5	05.09.11	1500	SOIL	NONE	5-Encores										X	X	X											
SL-087-SA8N-SB-9.0-10.0	05.09.11	1512	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-088-SA8N-SB-3.5	05.09.11	1410	SOIL	NONE	5-Encores										X	X	X											
SL-088-SA8N-SB-3.0-4.0	05.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-135-SA8N-SB-2.5	05.09.11	1320	SOIL	NONE	5-Encores										X	X	X											
SL-135-SA8N-SB-2.0-3.0	05.09.11	1325	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-141-SA8N-SB-4.5MS	05.09.11	0935	SOIL	NONE	15-Encores										X	X	X											MS/MSD
SL-141-SA8N-SB-4.0-5.0MS	05.09.11	0940	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		MS/MSD
DUP08-SA8N-QC-050911	05.09.11	0945	SOIL	NONE	5-Encores										X	X	X											
DUP08-SA8N-QC-050911	05.09.11	0945	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
TB-050911	05.09.11	0800	WATER	NONE	4-40 mL vials										X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/09/2011 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/10/11 10:00	8695 1441 7674, 7685	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/11/2011
Group Number: 1246282
SDG: DE147
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-105-SA8N-SB-4.0-5.0 Soil	6282746
SL-127-SA8N-SB-4.0-5.0 Soil	6282747
SL-128-SA8N-SB-2.5-3.5 Soil	6282748
SL-129-SA8N-SB-4.0-5.0 Soil	6282749
SL-137-SA8N-SB-4.0-5.0 Soil	6282750
SL-137-SA8N-SB-9.0-10.0 Soil	6282751
EB09-SA5N-SB-051011 Water	6282752
TB-051011 Water	6282753

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	15		6.7	8.0		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	4.3		0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	66.4		19.5	39.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.59	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.2	J	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.87	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.89	J	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.39
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.82	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,200		5.95	23.6		1
07914	Boron	7440-42-8	7.57		1.05	5.91		1
01650	Calcium	7440-70-2	5,230		7.25	23.6		1
01654	Iron	7439-89-6	30,300		5.57	23.6		1
01656	Lithium	7439-93-2	22.2		0.26	2.4		1
01657	Magnesium	7439-95-4	6,050		3.00	11.8		1
06958	Manganese	7439-96-5	496		0.0922	0.591		1
10145	Phosphorus	7723-14-0	210		0.662	11.8		1
01662	Potassium	7440-09-7	5,290		21.3	59.1		1
01667	Sodium	7440-23-5	151		44.1	118		1
07968	Strontium	7440-24-6	36.1		0.0733	0.591		1
06969	Tin	7440-31-5	3.26	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,440		0.449	1.18		1
10146	Zirconium	7440-67-7	6.70		0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.474		0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.42		0.0927	0.464		2
06126	Barium	7440-39-3	155		0.125	0.464		2
06127	Beryllium	7440-41-7	1.02		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.362		0.0464	0.116		2
06131	Chromium	7440-47-3	35.6		0.139	0.464		2
06132	Cobalt	7440-48-4	11.9		0.0232	0.116		2
06133	Copper	7440-50-8	21.2		0.0765	0.464		2
06135	Lead	7439-92-1	10.6		0.0121	0.232		2
06138	Molybdenum	7439-98-7	1.08		0.0579	0.116		2
06139	Nickel	7440-02-0	22.8		0.116	0.464		2
06141	Selenium	7782-49-2	0.273	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0409	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.453		0.0348	0.116		2
06148	Vanadium	7440-62-2	65.4		0.0255	0.116		2
06149	Zinc	7440-66-6	79.8		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14701 SDG#: DE147-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.59		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	364		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.96		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-105-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011	06:54	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011	16:16	Sara E Johnson	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011	15:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113124373	05/11/2011	15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113124373	05/11/2011	15:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113124373	05/11/2011	15:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011	15:59	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/18/2011	18:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011	15:02	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011	03:30	Sherry L Morrow	1

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

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14701 SDG#: DE147-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 01:46	Elizabeth J Marin	20.39
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:04	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 11:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 01:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 02:19	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 04:56	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 20:30	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111310022A	05/12/2011 13:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/18/2011 01:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111310022A	05/11/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 17:22	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2

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Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282746
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
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14701 SDG#: DE147-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 09:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11140621201A	05/22/2011 09:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11132621201B	06/01/2011 16:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 04:49	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 10:04	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11132621201B	05/25/2011 08:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.93
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.93
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.93
06192	Methylene Chloride	75-09-2	5.2		0.25	4.2		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.93

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Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1

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Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

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Suite 210
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14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.66
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.50	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,800		5.48	21.8		1
07914	Boron	7440-42-8	6.59		0.970	5.45		1
01650	Calcium	7440-70-2	5,670		6.68	21.8		1
01654	Iron	7439-89-6	34,900		10.3	43.6		2
01656	Lithium	7439-93-2	31.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,520		2.77	10.9		1
06958	Manganese	7439-96-5	459		0.0850	0.545		1
10145	Phosphorus	7723-14-0	177		0.610	10.9		1
01662	Potassium	7440-09-7	3,230		19.6	54.5		1
01667	Sodium	7440-23-5	187		40.6	109		1
07968	Strontium	7440-24-6	43.2		0.0676	0.545		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.05 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,110	0.414	1.09		1
10146	Zirconium	7440-67-7	5.77	0.915	5.45		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.221	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.46	0.0863	0.432		2
06126	Barium	7440-39-3	175	0.117	0.432		2
06127	Beryllium	7440-41-7	0.861	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.249	0.0432	0.108		2
06131	Chromium	7440-47-3	28.1	0.130	0.432		2
06132	Cobalt	7440-48-4	10.1	0.0216	0.108		2
06133	Copper	7440-50-8	13.6	0.0712	0.432		2
06135	Lead	7439-92-1	8.35	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.303	0.0540	0.108		2
06139	Nickel	7440-02-0	19.3	0.108	0.432		2
06141	Selenium	7782-49-2	0.135 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0561 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.323	0.0324	0.108		2
06148	Vanadium	7440-62-2	49.6	0.0237	0.108		2
06149	Zinc	7440-66-6	66.0	0.604	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	372	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.93	0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-127-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 07:17	Holly Berry	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 16:35	Sara E Johnson	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113124373	05/11/2011 15:08	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 15:20	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 13:27	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 02:22	Elizabeth J Marin	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:08	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 02:37	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 05:21	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 23:31	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 17:44	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 11:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201B	05/20/2011 14:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 05:07	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201B	05/12/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282747
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14702 SDG#: DE147-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		1.04
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.04
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.04
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.04
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.04
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.04
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.04
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.04
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.04
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.04
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.04
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.04
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.04
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.04
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.04
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.04
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.04
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.04
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.04
06192	Methylene Chloride	75-09-2	12		0.27	4.5		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.04

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.04
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.04
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.04
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.04
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.04
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		24.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.15
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.8		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.48	21.8		1
07914	Boron	7440-42-8	6.29		0.969	5.45		1
01650	Calcium	7440-70-2	3,750		6.68	21.8		1
01654	Iron	7439-89-6	26,800		5.13	21.8		1
01656	Lithium	7439-93-2	28.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,180		2.77	10.9		1
06958	Manganese	7439-96-5	234		0.0850	0.545		1
10145	Phosphorus	7723-14-0	259		0.610	10.9		1
01662	Potassium	7440-09-7	2,980		19.6	54.5		1
01667	Sodium	7440-23-5	138		40.6	109		1
07968	Strontium	7440-24-6	29.3		0.0675	0.545		1

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Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.06	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,280		0.414	1.09		1
10146	Zirconium	7440-67-7	5.19	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.49		0.0863	0.431		2
06126	Barium	7440-39-3	131		0.116	0.431		2
06127	Beryllium	7440-41-7	0.855		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.118		0.0431	0.108		2
06131	Chromium	7440-47-3	26.4		0.129	0.431		2
06132	Cobalt	7440-48-4	7.98		0.0216	0.108		2
06133	Copper	7440-50-8	9.81		0.0712	0.431		2
06135	Lead	7439-92-1	7.39		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.481		0.0539	0.108		2
06139	Nickel	7440-02-0	16.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.143	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0743	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.294		0.0324	0.108		2
06148	Vanadium	7440-62-2	50.6		0.0237	0.108		2
06149	Zinc	7440-66-6	59.8		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	359		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-128-SA8N-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 07:39	Holly Berry	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 16:55	Sara E Johnson	24.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113124373	05/11/2011 15:11	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 15:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 15:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 02:58	Elizabeth J Marin	23.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:11	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/28/2011 16:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111430014A	05/23/2011 16:50	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 05:46	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1

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Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 17:54	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 11:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201B	05/20/2011 15:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 05:20	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201B	05/12/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-128-SA8N-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282748
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14703 SDG#: DE147-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.0	8.4		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	23		0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.98
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.56	22.1		1
07914	Boron	7440-42-8	4.80	J	0.985	5.53		1
01650	Calcium	7440-70-2	4,050		6.78	22.1		1
01654	Iron	7439-89-6	25,300		5.21	22.1		1
01656	Lithium	7439-93-2	28.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,270		2.81	11.1		1
06958	Manganese	7439-96-5	229		0.0863	0.553		1
10145	Phosphorus	7723-14-0	208		0.620	11.1		1
01662	Potassium	7440-09-7	2,240		19.9	55.3		1
01667	Sodium	7440-23-5	166		41.3	111		1
07968	Strontium	7440-24-6	26.1		0.0686	0.553		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.04	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,330		0.420	1.11		1
10146	Zirconium	7440-67-7	4.89	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.186	J	0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.51		0.0859	0.430		2
06126	Barium	7440-39-3	126		0.116	0.430		2
06127	Beryllium	7440-41-7	0.805		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0695	J	0.0430	0.107		2
06131	Chromium	7440-47-3	28.2		0.129	0.430		2
06132	Cobalt	7440-48-4	7.76		0.0215	0.107		2
06133	Copper	7440-50-8	11.3		0.0709	0.430		2
06135	Lead	7439-92-1	6.50		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.393		0.0537	0.107		2
06139	Nickel	7440-02-0	17.4		0.107	0.430		2
06141	Selenium	7782-49-2	0.0572	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0451	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.370		0.0322	0.107		2
06148	Vanadium	7440-62-2	52.5		0.0236	0.107		2
06149	Zinc	7440-66-6	58.0		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	381		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-129-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 08:02	Holly Berry	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 17:15	Sara E Johnson	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113124373	05/11/2011 15:14	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 16:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 16:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34A	05/14/2011 03:35	Elizabeth J Marin	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:14	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 03:14	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 06:11	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 17:58	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 11:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201B	05/20/2011 15:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 05:38	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201B	05/12/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282749
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14704 SDG#: DE147-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.84
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.84
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.84
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.84
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.84
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.84
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.84
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.84
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.84
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.84
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.84
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.84
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.84
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.84
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.84
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.84
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.84
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.84
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.84
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.84
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.84
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.84
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.84
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.84
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.84
06192	Methylene Chloride	75-09-2	13		0.22	3.7		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.84

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.84
06192	Toluene	108-88-3	0.1	J	0.07	3.7		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.84
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.84
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.39	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.97	J	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.97	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.1		0.74	1.8		1

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Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.7	J	0.74	1.8		1
10138	Pyrene	129-00-0	2.0		0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.8		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		5.47	21.7		1
07914	Boron	7440-42-8	3.93	J	0.967	5.43		1
01650	Calcium	7440-70-2	3,400		6.66	21.7		1
01654	Iron	7439-89-6	24,100		5.12	21.7		1
01656	Lithium	7439-93-2	25.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,660		2.76	10.9		1
06958	Manganese	7439-96-5	195		0.0848	0.543		1
10145	Phosphorus	7723-14-0	165		0.609	10.9		1
01662	Potassium	7440-09-7	1,920		19.6	54.3		1
01667	Sodium	7440-23-5	83.1	J	40.5	109		1
07968	Strontium	7440-24-6	27.4		0.0674	0.543		1
06969	Tin	7440-31-5	3.08	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140		0.413	1.09		1
10146	Zirconium	7440-67-7	3.46	J	0.913	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.39		0.0861	0.431		2
06126	Barium	7440-39-3	120		0.116	0.431		2
06127	Beryllium	7440-41-7	0.831		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0857	J	0.0431	0.108		2

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Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	25.6	0.129	0.431		2
06132	Cobalt	7440-48-4	7.29	0.0215	0.108		2
06133	Copper	7440-50-8	12.0	0.0710	0.431		2
06135	Lead	7439-92-1	6.66	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.472	0.0538	0.108		2
06139	Nickel	7440-02-0	14.9	0.108	0.431		2
06141	Selenium	7782-49-2	0.0827 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0508 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.337	0.0323	0.108		2
06148	Vanadium	7440-62-2	47.0	0.0237	0.108		2
06149	Zinc	7440-66-6	61.8	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.2	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	368	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-137-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 08:24	Holly Berry	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111311AA	05/11/2011 17:36	Sara E Johnson	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113124373	05/11/2011 15:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113124373	05/11/2011 15:17	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 16:33	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 16:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 03:33	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:02	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2

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Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282750
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14705 SDG#: DE147-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 12:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201B	05/20/2011 15:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 05:51	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201B	05/12/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282751
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14706 SDG#: DE147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282751
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14706 SDG#: DE147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.9	21		1
10138	Chrysene	218-01-9	0.63	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.76	1.9		1
10138	Pyrene	129-00-0	0.84	J	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.50	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1

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Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282751
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14706 SDG#: DE147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.54	22.0		1
07914	Boron	7440-42-8	6.41		0.980	5.51		1
01650	Calcium	7440-70-2	3,400		6.75	22.0		1
01654	Iron	7439-89-6	27,400		5.19	22.0		1
01656	Lithium	7439-93-2	26.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,600		2.80	11.0		1
06958	Manganese	7439-96-5	315		0.0859	0.551		1
10145	Phosphorus	7723-14-0	339		0.617	11.0		1
01662	Potassium	7440-09-7	3,040		19.8	55.1		1
01667	Sodium	7440-23-5	305		41.1	110		1
07968	Strontium	7440-24-6	28.1		0.0683	0.551		1
06969	Tin	7440-31-5	3.31	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,260		0.419	1.10		1
10146	Zirconium	7440-67-7	4.25	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.664		0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.40		0.0916	0.458		2
06126	Barium	7440-39-3	127		0.124	0.458		2
06127	Beryllium	7440-41-7	0.841		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.264		0.0458	0.115		2
06131	Chromium	7440-47-3	26.1		0.137	0.458		2
06132	Cobalt	7440-48-4	8.05		0.0229	0.115		2
06133	Copper	7440-50-8	16.6		0.0756	0.458		2
06135	Lead	7439-92-1	12.6		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.759		0.0573	0.115		2
06139	Nickel	7440-02-0	15.9		0.115	0.458		2
06141	Selenium	7782-49-2	0.200	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0428	J	0.0137	0.115		2
06145	Thallium	7440-28-0	0.335		0.0344	0.115		2
06148	Vanadium	7440-62-2	47.5		0.0252	0.115		2
06149	Zinc	7440-66-6	69.3		0.641	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282751
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14706 SDG#: DE147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.42		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 16:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 17:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111310017A	05/15/2011 03:51	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111310017A	05/12/2011 09:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282751
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14706 SDG#: DE147-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:05	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 12:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 12:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11132621201B	05/20/2011 16:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 06:03	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11132621201B	05/12/2011 12:30	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.11	J	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.50	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.12	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.23	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1

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Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.032	J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.21	J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
The following compounds were detected in the method blank at the respective concentrations of:								
di-n-butylphthalate .20 ug/l								
butylbenzylphthalate .096 ug/l								
bis(2-ethylhexyl)phthalate .19 ug/l								
di-n-octylphthalate .21 ug/l								
These blank values were not subtracted from the analytical results.								
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0205	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1

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Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.8	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111351AA	05/15/2011 12:27	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111312AA	05/11/2011 22:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111312AA	05/11/2011 22:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111351AA	05/15/2011 12:27	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB09-SA5N-SB-051011 Water**
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282752
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14707 SDG#: DE147-07EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11131WAH026	05/14/2011 12:19	Chad A Moline	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11133WAI026	05/18/2011 18:32	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11131WAH026	05/12/2011 08:00	Catherine R Wiker	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11133WAI026	05/14/2011 10:30	Olivia Arosemena	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111360020A	05/20/2011 19:51	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111360020A	05/17/2011 05:20	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
08014	Boron	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01750	Calcium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01754	Iron	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01756	Lithium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
07058	Manganese	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01762	Potassium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
01767	Sodium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
08068	Strontium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
07069	Tin	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
07070	Titanium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111381848002	05/19/2011 18:51	John P Hook	1
06024	Antimony	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111386050002D	05/20/2011 11:37	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111386050002C	05/20/2011 11:37	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111386050002B	05/20/2011 11:37	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111386050002A	05/20/2011 11:37	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111375713005	05/19/2011 09:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111381848002	05/19/2011 09:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111386050002	05/19/2011 09:08	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111375713005	05/18/2011 10:55	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11139196902B	05/20/2011 07:04	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11132621701A	05/12/2011 15:36	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11131196401B	05/11/2011 11:22	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11131020001A	05/11/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051011 Water
SSFL Area IV Collocated Soil Sampling
TB-051011

LLI Sample # WW 6282753
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 08:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14708 SDG#: DE147-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051011 Water
SSFL Area IV Collocated Soil Sampling
TB-051011

LLI Sample # WW 6282753
LLI Group # 1246282
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 08:00

Submitted: 05/11/2011 09:30
Reported: 06/07/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14708 SDG#: DE147-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111351AA	05/15/2011	12:05	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111312AA	05/11/2011	22:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111312AA	05/11/2011	22:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111351AA	05/15/2011	12:05	Linda C Pape	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11136A20A	05/17/2011	15:14	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11136A20A	05/17/2011	15:14	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111371AA	Sample number(s): 6282746-6282750									
Acetone	6.7	U	6.7	8.0	ug/kg	109	106	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	111	112	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107	108	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	93	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	89	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	89	90	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	121*	121*	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	125*	125*	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	109	109	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	105	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	108	107	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	89	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	105	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	103	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	112	112	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	108	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	63	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	96	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	101	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108	107	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	109	109	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108	109	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	90	89	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	111	114	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	97	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	105	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111	113	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	107	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	110	109	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	100	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	94	97	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	108	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	107	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	86	86	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	111	113	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	93	94	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111	110	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	119	120	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	92	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	97	98	61-134	1	30
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	104	95	76-124	9	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	123*	120	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	101	100	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	110	110	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99	103	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98	97	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	103	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	103	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98	94	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	103	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	114	115	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	117	117	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	99	97	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109	108	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	104	80-120	0	30
Batch number: E111311AA	Sample number(s): 6282746-6282750									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	106	121	70-130	13	30
Batch number: E111312AA	Sample number(s): 6282752-6282753									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111	114	80-123	2	30
Batch number: L111351AA	Sample number(s): 6282752-6282753									
Acetone	6	U	6.	20	ug/l	170	176	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	0	30
Bromoform	1	U	1.	5	ug/l	83	82	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	110	113	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	97	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	93	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	97	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	102	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	93	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	99	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	96	106	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	94	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	63	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	90	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	96	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	84	86	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	98	79-120	2	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	103	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	96	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	92	95	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	99	100	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	95	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	92	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	95	98	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	98	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	87	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	93	95	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	97	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	89	89	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	97	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	90	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	93	95	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	91	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	91	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	91	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	84	86	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	94	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	108	108	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	90	92	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	97	101	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
Batch number: 11131WAH026	Sample number(s): 6282752									
Aniline	1	U	1.	5	ug/l	69	71	49-101	3	30
Benzidine	20	U	20.	60	ug/l	58	59	34-117	3	30
Benzoic acid	6	U	6.	15	ug/l	36	41	10-69	12	30
Benzyl alcohol	5	U	5.	15	ug/l	83	81	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	97	99	82-117	2	30
Carbazole	1	U	1.	5	ug/l	101	102	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	90	92	70-123	3	30
4-Chloroaniline	1	U	1.	5	ug/l	54	57	42-124	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	94	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	93	92	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	97	95	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	91	81	54-132	12	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	94	92	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	98	98	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	89	93	55-118	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	90	94	50-119	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	89	92	53-119	3	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	57	64	49-111	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	100	102	80-109	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	87	90	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	95	97	70-130	3	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	99	78-119	6	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	80	83	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	96	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	97	97	85-115	0	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	98	99	78-116	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	105	110	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	90	97	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	81	87	36-118	7	30
Hexachloroethane	1	U	1.	5	ug/l	84	90	52-113	7	30
Isophorone	1	U	1.	5	ug/l	89	91	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	91	90	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	90	89	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	96	94	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	90	90	74-113	0	30
4-Nitroaniline	1	U	1.	5	ug/l	71	70	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	90	92	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	96	98	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	44	47	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	88	86	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	104	104	67-136	0	30
Pentachlorophenol	3	U	3.	15	ug/l	83	87	53-110	5	30
Phenol	1	U	1.	5	ug/l	59	58	21-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	97	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	100	79-107	0	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	101	81-113	1	30
Batch number: 11133WAI026	Sample number(s): 6282752									
Acenaphthene	0.010	U	0.010	0.050	ug/l	89	90	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	94	95	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	101	66-111	4	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	100	104	72-114	4	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	103	109	60-127	5	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	116	114	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	99	104	57-131	5	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	111	59-130	11	30
Butylbenzylphthalate	0.096	J	0.050	1.0	ug/l	82	84	40-138	2	30
Di-n-butylphthalate	0.20	J	0.050	1.0	ug/l	99	98	74-131	0	30
Chrysene	0.010	U	0.010	0.050	ug/l	97	101	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	104	108	55-134	4	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	92	94	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	73	73	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.19	J	0.050	1.0	ug/l	108	116	57-154	8	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	106	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	100	103	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	103	107	69-124	4	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	91	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	81	81	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	86	86	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	53	53	36-89	1	30
Di-n-octylphthalate	0.21	J	0.050	1.0	ug/l	115	120	57-145	4	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	92	95	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	94	98	69-118	4	30
Batch number: 11134SLA026	Sample number(s): 6282746-6282751									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	102		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	116		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	102		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	126		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11136SLC026	Sample number(s): 6282746-6282751									
Aniline	170	U	170.	500	ug/kg	63		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170	U	170.	500	ug/kg	70		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	76		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	78*		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	79		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	78		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	75		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	76		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	81		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	79		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	86		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	75*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	75		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	87		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	79		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	84		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	65		37-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	86		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	85		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	82		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	87		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	77		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	67		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	73		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	79		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	83		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	78		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	81		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	72		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	89		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	74		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	79		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 11137SLE026	Sample number(s): 6282746									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11132A34A	Sample number(s): 6282746-6282749									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11136A20A	Sample number(s): 6282753									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111370002A	Sample number(s): 6282746									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	116		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	93		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	113		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800	U	800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
Batch number: 111360003A	Sample number(s): 6282746									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111310017A	Sample number(s): 6282746-6282747,6282749-6282751									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81	70	36-106	15	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111360020A	Sample number(s): 6282752									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	84	82	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	114	51-128	9	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	106	108	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111430014A	Sample number(s): 6282748									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	85	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	109		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111380034A	Sample number(s): 6282746-6282749									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111310022A	Sample number(s): 6282746									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylene glycol	5.0	U	5.0	10	mg/kg	87		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111330017A	Sample number(s): 6282746									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111320022A	Sample number(s): 6282746									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 111361026001A	Sample number(s): 6282746-6282751									
Antimony	0.0600	U	0.0600	0.200	mg/kg	155		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	108		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	107		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	111		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111361026001B	Sample number(s): 6282746-6282751									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		83-111		
Batch number: 111361026001C	Sample number(s): 6282746-6282751									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 111361026001D	Sample number(s): 6282746-6282751									
Barium	0.108	U	0.108	0.400	mg/kg	107		81-111		
Batch number: 111365708001	Sample number(s): 6282746-6282751									
Aluminum	5.03	U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	9.14	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.61	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	92		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111365711001	Sample number(s): 6282746-6282751									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	100		88-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111375713005	Sample number(s): 6282752								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	101	95	80-120	6	20
Batch number: 111381848002	Sample number(s): 6282752								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	96	90-112	3	20
Boron	0.0181 J	0.0138	0.0500	mg/l	98	96	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	110	109	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	111	108	90-112	3	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	106	103	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	98	96	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	98	97	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	102	90-110	2	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	99	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	104	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	102	80-120	1	20
Batch number: 111386050002A	Sample number(s): 6282752								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	95	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	105	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	107	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	96	100	87-113	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	97	101	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	108	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	107	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	105	89-116	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	95	104	90-116	10	20
Batch number: 111386050002B	Sample number(s): 6282752								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	107	85-114	3	20
Batch number: 111386050002C	Sample number(s): 6282752								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	103	89-115	6	20
Batch number: 111386050002D	Sample number(s): 6282752								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 11131196401B	Sample number(s): 6282752								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	101	100	90-110	1	20
Batch number: 11132621201B	Sample number(s): 6282746-6282751								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11132621701A	Sample number(s): 6282752								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	89	86	85-115	3	20
Batch number: 11139196902B	Sample number(s): 6282752								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	96	96	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11139243202A	Sample number(s): 6282746-6282751									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11140102201A	Sample number(s): 6282746									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11140621201A	Sample number(s): 6282746-6282751									
11a Anions by 300.0 - Fluoride	4.0	U	4.0	5.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11131020001A	Sample number(s): 6282752									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11139039401A	Sample number(s): 6282746-6282751									
18a pH by 9045C						100		95-105		
Batch number: 11139182101A	Sample number(s): 6282746-6282751									
32a OR Potential						99		98-102		
Batch number: 11139162401A	Sample number(s): 6282747-6282751									
Moisture Content by 160.3						100		80-120		
Batch number: 11147162401A	Sample number(s): 6282746									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111311AA	Sample number(s): 6282746-6282750 UNSPK: P281100								
1,4-Dioxane	97	91	70-130	10	30				
Batch number: 11134SLA026	Sample number(s): 6282746-6282751 UNSPK: 6282747								
Acenaphthene	89	92	63-105	4	30				
Acenaphthylene	91	90	67-114	2	30				
Anthracene	94	92	60-122	3	30				
Benzo(a)anthracene	97	95	59-128	1	30				
Benzo(a)pyrene	99	98	45-138	1	30				
Benzo(b)fluoranthene	102	105	43-155	3	30				
Benzo(g,h,i)perylene	91	88	33-141	3	30				
Benzo(k)fluoranthene	96	95	42-144	0	30				
Butylbenzylphthalate	109	108	57-173	1	30				
Di-n-butylphthalate	115	109	65-148	5	30				
Chrysene	94	93	48-134	1	30				
Dibenz(a,h)anthracene	97	95	22-133	1	30				
Diethylphthalate	98	98	70-136	0	30				
Dimethylphthalate	95	94	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	98	89	39-167	8	30				
Fluoranthene	99	97	26-166	2	30				
Fluorene	94	92	66-122	1	30				

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Quality Control Summary

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Reported: 06/07/11 at 12:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	96	95	21-143	1	30				
1-Methylnaphthalene	93	91	72-123	2	30				
2-Methylnaphthalene	84	83	64-103	1	30				
Naphthalene	93	99	61-102	6	30				
N-Nitrosodimethylamine	88	85	48-113	3	30				
Di-n-octylphthalate	113	111	40-192	1	30				
Phenanthrene	90	88	12-165	2	30				
Pyrene	92	91	15-153	1	30				
Batch number: 11136SLC026	Sample number(s): 6282746-6282751 UNSPK: 6282746								
Aniline	67	69	35-95	2	30				
Benzidine	37	38	35-141	5	30				
Benzoic acid	61	69	10-173	12	30				
Benzyl alcohol	88	89	67-115	2	30				
4-Bromophenyl-phenylether	90	90	67-129	0	30				
Carbazole	101	100	64-120	1	30				
4-Chloro-3-methylphenol	88	90	76-110	3	30				
4-Chloroaniline	71	75	23-95	6	30				
bis(2-Chloroethoxy)methane	85	86	75-104	2	30				
bis(2-Chloroethyl)ether	81	80	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	80	55-142	1	30				
2-Chloronaphthalene	94	95	50-141	1	30				
2-Chlorophenol	91	90	73-121	1	30				
4-Chlorophenyl-phenylether	87	88	80-109	3	30				
Dibenzofuran	95	94	71-112	0	30				
1,2-Dichlorobenzene	76	73	66-108	4	30				
1,3-Dichlorobenzene	73	69	63-109	5	30				
1,4-Dichlorobenzene	73	71	70-100	2	30				
3,3'-Dichlorobenzidine	62	63	16-119	2	30				
2,4-Dichlorophenol	96	99	78-117	3	30				
2,4-Dimethylphenol	84	87	78-110	4	30				
3,5-Dimethylphenol	92	90	70-130	2	30				
4,6-Dinitro-2-methylphenol	78	83	24-116	7	30				
2,4-Dinitrophenol	55	65	20-143	16	30				
2,4-Dinitrotoluene	97	98	73-113	1	30				
2,6-Dinitrotoluene	96	96	69-123	1	30				
1,2-Diphenylhydrazine	94	92	71-129	1	30				
bis(2-Ethylhexyl)phthalate	100	98	63-122	1	30				
Hexachlorobenzene	100	100	77-114	0	30				
Hexachlorobutadiene	76	75	62-120	1	30				
Hexachlorocyclopentadiene	66	64	10-153	2	30				
Hexachloroethane	69	67	57-109	2	30				
Isophorone	82	82	73-102	1	30				
2-Methylphenol	87	88	75-111	1	30				
4-Methylphenol	91	92	71-111	1	30				
2-Nitroaniline	94	93	67-125	0	30				
3-Nitroaniline	93	92	59-122	0	30				
4-Nitroaniline	75	75	52-112	0	30				
Nitrobenzene	82	84	72-106	3	30				
2-Nitrophenol	89	90	74-115	2	30				
4-Nitrophenol	89	88	54-113	0	30				
N-Nitroso-di-n-propylamine	80	80	60-116	1	30				
N-Nitrosodiphenylamine	100	99	86-145	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pentachlorophenol	73	75	28-127	3	30				
Phenol	83	84	58-126	3	30				
1,2,4-Trichlorobenzene	80	79	72-115	1	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	95	96	77-115	1	30				
Batch number: 11137SLE026	Sample number(s): 6282746 UNSPK: P267471								
N-Nitrosodimethylamine	68*	70	70-130	3	30				
Batch number: 11132A34A	Sample number(s): 6282746-6282749 UNSPK: P281100								
9a TPH by EPA 8015B Gas C5-C12	123*	111	39-118	20	30				
Batch number: 111370002A	Sample number(s): 6282746 UNSPK: P281100								
4-Amino-2,6-Dinitrotoluene	94	77*	80-127	27	50				
2-Amino-4,6-Dinitrotoluene	93	76*	80-137	27	50				
1,3-Dinitrobenzene	101	83	38-166	27	50				
2,4-Dinitrotoluene	92	76*	80-131	26	50				
2,6-Dinitrotoluene	94	77*	80-127	27	50				
HMX	73	59*	63-128	29	50				
Nitrobenzene	98	82	80-125	26	50				
Nitroglycerin	87	71*	80-120	27	50				
2-Nitrotoluene	94	79*	80-122	25	50				
3-Nitrotoluene	97	82	72-119	25	50				
4-Nitrotoluene	92	78*	80-125	25	50				
PETN	103	82	80-121	30	50				
RDX	81	62*	75-129	34	50				
Tetryl	68	58	55-174	23	50				
1,3,5-Trinitrobenzene	82	68*	82-126	26	50				
2,4,6-Trinitrotoluene	94	78*	82-130	27	50				
Batch number: 111360003A	Sample number(s): 6282746 UNSPK: P281100								
25a Formaldehyde 8315A	96	99	80-120	2	50				
Batch number: 111310017A	Sample number(s): 6282746-6282747,6282749-6282751 UNSPK: P281100								
PCB-1016	111	131	29-146	16	50				
PCB-1260	99	110	39-149	10	50				
Batch number: 111430014A	Sample number(s): 6282748 UNSPK: P291999								
PCB-1016	97	122	29-146	24	50				
PCB-1260	83	100	39-149	19	50				
Batch number: 111380034A	Sample number(s): 6282746-6282749 UNSPK: P281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111310022A	Sample number(s): 6282746 UNSPK: P281100								
Diethylene glycol	40*	50*	59-109	23*	20				
Ethylene glycol	55*	68	63-107	20	20				
Propylene glycol	62*	73	63-107	18	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111330017A	Sample number(s): 6282746 UNSPK: P286419								
Ethanol	71	68	48-130	4	20				
Isopropanol	75	73	12-149	2	20				
Methanol	74	72	43-138	2	20				
Batch number: 111320022A	Sample number(s): 6282746 UNSPK: P281100								
m-Terphenyl	77	78	75-125	2	20				
o-Terphenyl	89	90	75-125	1	20				
p-Terphenyl	85	85	75-125	1	20				
Batch number: 111361026001A	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
Antimony	80	76	75-125	3	20	0.401	0.231	54* (1)	20
Arsenic	151*	102	75-125	12	20	5.44	4.96	9	20
Beryllium	116	95	75-125	10	20	0.859	0.700	20	20
Cadmium	124	123	75-125	1	20	0.306	0.329	7 (1)	20
Chromium	142*	91	75-125	12	20	30.1	25.2	18	20
Cobalt	124	117	75-125	5	20	10.1	9.33	8	20
Copper	132*	120	75-125	4	20	17.9	15.9	12	20
Lead	134*	114	75-125	5	20	8.97	7.69	15	20
Nickel	143*	122	75-125	6	20	19.3	17.1	12	20
Silver	125	118	75-125	5	20	0.0346 J	0.0260 J	28* (1)	20
Thallium	132*	111	75-125	9	20	0.384	0.315	20 (1)	20
Vanadium	193 (2)	107 (2)	75-125	12	20	55.3	47.6	15	20
Zinc	136 (2)	38 (2)	75-125	12	20	67.5	56.9	17	20
Batch number: 111361026001B	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
Selenium	110	109	75-125	1	20	0.231 J	0.194 J	18 (1)	20
Batch number: 111361026001C	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
Molybdenum	121	115	75-125	5	20	0.912	0.619	38*	20
Batch number: 111361026001D	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
Barium	234 (2)	105 (2)	75-125	8	20	131	116	12	20
Batch number: 111365708001	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
Aluminum	2991 (2)	4057 (2)	75-125	7	20	23,800	23,100	3	20
Boron	93	94	84-115	0	20	6.41	6.43	0 (1)	20
Calcium	137 (2)	205 (2)	75-125	5	20	4,420	4,540	3	20
Iron	2410 (2)	4209 (2)	75-125	6	20	25,600	25,900	1	20
Lithium	100	102	82-114	1	20	18.8	18.6	1	20
Magnesium	266 (2)	448 (2)	75-125	6	20	5,120	5,170	1	20
Manganese	77 (2)	42 (2)	75-125	4	20	420	447	6	20
Phosphorus	97	91	75-125	3	20	178	180	1	20
Potassium	152 (2)	166 (2)	75-125	2	20	4,470	4,580	2	20
Sodium	96	98	75-125	1	20	128	129	1 (1)	20
Strontium	98	101	75-115	2	20	30.5	30.4	0	20
Tin	87	87	80-110	1	20	2.76 J	2.62 J	5 (1)	20
Titanium	322 (2)	348 (2)	75-125	1	20	1,220	1,160	5	20
Zirconium	91	93	75-125	1	20	5.67	5.76	2 (1)	20
Batch number: 111365711001	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Mercury	87	89	65-135	1	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 11132621201B	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
7a Perchlorate EPA 314.0	86		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11139243202A	Sample number(s): 6282746-6282751 UNSPK: P281100 BKG: P281100								
3a Cr VI by EPA 7199	94		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11140102201A	Sample number(s): 6282746 UNSPK: P281100 BKG: P281100								
17a Cyanide by 9012B	101		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11140621201A	Sample number(s): 6282746-6282751 UNSPK: 6282746 BKG: 6282746								
11a Anions by 300.0 - Fluoride	85		80-120			4.0 U	4.0 U	0 (1)	20
11a Anions by 300.0 - Nitrate	86		80-120			1.3 J	0.97 J	28* (1)	20
Batch number: 11139039401A	Sample number(s): 6282746-6282751 BKG: 6282749								
18a pH by 9045C						6.84	6.96	2	3
Batch number: 11139182101A	Sample number(s): 6282746-6282751 BKG: 6282749								
32a OR Potential						381	379	0	6
Batch number: 11139162401A	Sample number(s): 6282747-6282751 BKG: P287596								
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6282746 BKG: P281100								
Moisture Content by 160.3						16.8	15.8	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6282746	103	114	105	93
6282747	100	107	107	89
6282748	101	110	104	92
6282749	100	103	105	88
6282750	102	106	105	90
Blank	97	96	107	90
LCS	97	99	110	100
LCSD	97	99	109	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111311AA

	Toluene-d8

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Surrogate Quality Control

6282746	100
6282747	99
6282748	99
6282749	100
6282750	99
Blank	100
LCS	99
LCSD	101
MS	99
MSD	99
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111312AA

	Toluene-d8
6282752	101
6282753	101
Blank	102
LCS	102
LCSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6282752	105	100	99	98
6282753	105	100	99	98
Blank	104	104	99	97
LCS	105	104	100	102
LCSD	103	104	100	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11131WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6282752	55	34	95	82	88	77
Blank	55	42	94	78	85	82
LCS	63	50	96	84	93	88
LCSD	64	50	98	86	93	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11133WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6282752	96	92	107
Blank	101	90	111
LCS	106	86	102
LCSD	104	86	105

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Surrogate Quality Control

Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11134SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6282746	99	91	98
6282747	98	90	100
6282748	108	98	104
6282749	101	68	98
6282750	103	94	100
6282751	103	76	99
Blank	93	92	100
LCS	107	92	98
MS	106	87	93
MSD	98	81	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11136SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6282746	76	75	86	71	78	85
6282747	70	70	62	65	70	74
6282748	75	75	69	69	76	78
6282749	71	71	69	68	73	77
6282750	73	71	69	65	71	80
6282751	78	78	74	72	82	82
Blank	78	83	95	80	87	89
LCS	70	73	79	71	77	70
MS	80	83	92	76	87	82
MSD	80	81	89	76	82	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11137SLE026

	N-Nitrosodimethylamine-d6
6282746	159*
Blank	118
LCS	122
MS	132
MSD	128
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11132A34A

	Trifluorotoluene-F
6282746	72
6282747	74
6282748	75

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Surrogate Quality Control

6282749	71
Blank	78
LCS	86
MS	77
MSD	72
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11136A20A

	Trifluorotoluene-F
6282753	76
Blank	76
LCS	106
LCSD	109
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111310017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6282746	113	89
6282747	107	89
6282749	107	93
6282750	112	90
6282751	95	102
Blank	118	96
LCS	106	75
LCSD	96	72
MS	105	79
MSD	112	84
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111360003A

	Butyraldehyde
6282746	78
Blank	102
LCS	99
MS	99
MSD	99
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111360020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6282752	120	91
Blank	116	85
LCS	120	68
LCSD	123	68

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Surrogate Quality Control

Limits: 30-150 45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111370002A

	2-Nitro-m-xylene
6282746	122
Blank	106
LCS	112
LCSD	111
MS	98
MSD	99

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111430014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6282748	123	111
Blank	114	119
LCS	115	111
LCSD	111	111
MS	105	79
MSD	118	98

Limits: 53-139 45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111310022A

	Tetramethylene glycol
6282746	82
Blank	87
LCS	97
MS	82
MSD	81

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111320022A

	n-Triacontane-d62
6282746	74
Blank	77
LCS	77
MS	69
MSD	68

Limits: 50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111330017A

	Acetone
6282746	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246282
Reported: 06/07/11 at 12:50 PM

Surrogate Quality Control

Blank	101
LCS	99
MS	80
MSD	78
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

	Chlorobenzene	Orthoterphenyl
6282746	57	64
6282747	60	67
6282748	64	71
6282749	65	71
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

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acct#13013 Cp#1246282 Sample# 6282746-53

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV CO-LOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Fuel EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Enterolitics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Sampler Signature:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-105-SA8N-SB-4.5	05.10.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-105-SA8N-SB-4.0-5.0	05.10.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-127-SA8N-SB-4.5	05.10.11	1104	SOIL	NONE	5-Encores										X	X	X										
SL-127-SA8N-SB-4.0-5.0	05.10.11	1110	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-128-SA8N-SB-3.0	05.10.11	0958	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA8N-SB-2.5-3.5	05.10.11	1005	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-129-SA8N-SB-4.5	05.10.11	0912	SOIL	NONE	5-Encores										X	X	X										
SL-129-SA8N-SB-4.0-5.0	05.10.11	0916	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-137-SA8N-SB-4.5	05.10.11	1510	SOIL	NONE	4-Encores										X	X											
SL-137-SA8N-SB-4.0-5.0	05.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-137-SA8N-SB-9.0-10.0	05.10.11	1525	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
EB09-SA5B-SB-051011	05.10.11	1200	WATER	NONE	5-1L Amber Glass			X	X	X																	
EB09-SA5B-SB-051011	05.10.11	1200	WATER	HNO3	1-500mL plastic	X																					
EB09-SA5B-SB-051011	05.10.11	1200	WATER	NONE	1-500mL plastic		X				X	X	X														
EB09-SA5B-SB-051011	05.10.11	1200	WATER	HCL	6-40mL Vials										X	X											
TB-051011	05.10.11	0600	WATER	NONE	4-40 mL vials										X	X	X										
Relinquished by: (Signature)	Date/Time 5/10/2011 1700		Received for Laboratory by: (Signature)																							Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time 5/11/2011		Airbill No.(s) 8695 1441 7700,7696																								

Nicole Maljovec

A# 13013

Grp# 1246282

Smpl# 6282746-53

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, May 11, 2011 3:21 PM
To: Nicole Maljovec
Subject: COC correction

Attachments: COC 05 10 11.xlsx

COC 05 10 11.xlsx
(23 KB)

Hi Nicole

I found another error on our COC from yesterday. The Equipment blank should she named :

EB09-SA8N-SB-051011

I have attached a corrected COC. Sorry for the mistake!

Thanks,

Pam

A#13013 Grp#1246282 Sample#G282746-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
SL-105-SA8N-SB-4.5	05.10.11	1220	SOIL	NONE	5-Encores										X	X	X									
SL-105-SA8N-SB-4.0-5.0	05.10.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-127-SA8N-SB-4.5	05.10.11	1104	SOIL	NONE	5-Encores										X	X	X									
SL-127-SA8N-SB-4.0-5.0	05.10.11	1110	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X								
SL-128-SA8N-SB-3.0	05.10.11	0958	SOIL	NONE	5-Encores										X	X	X									
SL-128-SA8N-SB-2.5-3.5	05.10.11	1005	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X								
SL-129-SA8N-SB-4.5	05.10.11	0912	SOIL	NONE	5-Encores										X	X	X									
SL-129-SA8N-SB-4.0-5.0	05.10.11	0916	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X								
SL-137-SA8N-SB-4.5	05.10.11	1510	SOIL	NONE	4-Encores										X	X										
SL-137-SA8N-SB-4.0-5.0	05.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-137-SA8N-SB-9.0-10.0	05.10.11	1525	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
EB09-SA8N-SB-051011	05.10.11	1200	WATER	NONE	5-1L Amber Glass			X	X	X																
EB09-SA8N-SB-051011	05.10.11	1200	WATER	HNO3	1-500mL plastic	X																				
EB09-SA8N-SB-051011	05.10.11	1200	WATER	NONE	1-500mL plastic		X				X	X	X													
EB09-SA8N-SB-051011	05.10.11	1200	WATER	HCL	6-40mL Vials										X	X										
TB-051011	05.10.11	0800	WATER	NONE	4-40 mL vials										X	X	X									

Other Instructions and Notes
Amanda Cox NLN 5/16/11

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	5/10/2011 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7700,7696	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/11/2011
Group Number: 1246284
SDG: DX079
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-105-SA8N-SB-4.0-5.0 Soil	6282756
SL-127-SA8N-SB-4.0-5.0 Soil	6282757
SL-128-SA8N-SB-2.5-3.5 Soil	6282758
SL-129-SA8N-SB-4.0-5.0 Soil	6282759
SL-137-SA8N-SB-4.0-5.0 Soil	6282760
SL-137-SA8N-SB-9.0-10.0 Soil	6282761
EB09-SA5N-SB-051011 Water	6282762

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282756
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7915 SDG#: DX079-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282756
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7915 SDG#: DX079-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0407 JBQ	0.0281	1.15	1
11031	12378-PeCDD	40321-76-4	0.0848 JB	0.0382	5.74	1
11031	123478-HxCDD	39227-28-6	0.0681 JBQ	0.0405	5.74	1
11031	123678-HxCDD	57653-85-7	0.355 JB	0.0407	5.74	1
11031	123789-HxCDD	19408-74-3	0.638 JB	0.0375	5.74	1
11031	1234678-HpCDD	35822-46-9	0.519 JBQ	0.0557	5.74	1
11031	OCDD	3268-87-9	1.45 JB	0.0796	11.5	1
11031	2378-TCDF	51207-31-9	0.0307 U	0.0307	1.15	1
11031	12378-PeCDF	57117-41-6	0.182 JB	0.0209	5.74	1
11031	23478-PeCDF	57117-31-4	0.144 JBQ	0.0208	5.74	1
11031	123478-HxCDF	70648-26-9	0.0933 JB	0.0292	5.74	1
11031	123678-HxCDF	57117-44-9	0.105 JB	0.0245	5.74	1
11031	123789-HxCDF	72918-21-9	0.781 JB	0.0297	5.74	1
11031	234678-HxCDF	60851-34-5	0.144 JB	0.0232	5.74	1
11031	1234678-HpCDF	67562-39-4	0.262 JB	0.0217	5.74	1
11031	1234789-HpCDF	55673-89-7	0.141 JBQ	0.0366	5.74	1
11031	OCDF	39001-02-0	0.543 JBQ	0.0903	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282756
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7915 SDG#: DX079-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA8N-SB-4.0-5.0

LLI Sample # SW 6282756
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7915 SDG#: DX079-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/19/2011 23:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282757
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7916 SDG#: DX079-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282757
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7916 SDG#: DX079-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0253 U	0.0253	1.11	1
11031	12378-PeCDD	40321-76-4	0.0694 JBQ	0.0341	5.56	1
11031	123478-HxCDD	39227-28-6	0.0567 JB	0.0299	5.56	1
11031	123678-HxCDD	57653-85-7	0.171 JB	0.0309	5.56	1
11031	123789-HxCDD	19408-74-3	0.288 JB	0.0301	5.56	1
11031	1234678-HpCDD	35822-46-9	0.660 JB	0.0543	5.56	1
11031	OCDD	3268-87-9	2.75 JBQ	0.0504	11.1	1
11031	2378-TCDF	51207-31-9	0.0324 JQ	0.0269	1.11	1
11031	12378-PeCDF	57117-41-6	0.0835 JBQ	0.0187	5.56	1
11031	23478-PeCDF	57117-31-4	0.0938 JB	0.0189	5.56	1
11031	123478-HxCDF	70648-26-9	0.0602 JB	0.0246	5.56	1
11031	123678-HxCDF	57117-44-9	0.0710 JB	0.0213	5.56	1
11031	123789-HxCDF	72918-21-9	0.389 JB	0.0294	5.56	1
11031	234678-HxCDF	60851-34-5	0.0677 JBQ	0.0220	5.56	1
11031	1234678-HpCDF	67562-39-4	0.188 JB	0.0172	5.56	1
11031	1234789-HpCDF	55673-89-7	0.116 JBQ	0.0331	5.56	1
11031	OCDF	39001-02-0	0.290 JB	0.0703	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282757
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7916 SDG#: DX079-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA8N-SB-4.0-5.0

LLI Sample # SW 6282757
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 11:10

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7916 SDG#: DX079-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 00:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282758
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7917 SDG#: DX079-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282758
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7917 SDG#: DX079-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0175 U	0.0175	1.09	1
11031	12378-PeCDD	40321-76-4	0.0341 JBQ	0.0266	5.43	1
11031	123478-HxCDD	39227-28-6	0.0441 JBQ	0.0264	5.43	1
11031	123678-HxCDD	57653-85-7	0.0785 JBQ	0.0273	5.43	1
11031	123789-HxCDD	19408-74-3	0.114 JBQ	0.0259	5.43	1
11031	1234678-HpCDD	35822-46-9	0.398 JBQ	0.0404	5.43	1
11031	OCDD	3268-87-9	1.48 JB	0.0427	10.9	1
11031	2378-TCDF	51207-31-9	0.0228 U	0.0228	1.09	1
11031	12378-PeCDF	57117-41-6	0.0532 JBQ	0.0161	5.43	1
11031	23478-PeCDF	57117-31-4	0.0681 JB	0.0162	5.43	1
11031	123478-HxCDF	70648-26-9	0.0731 JB	0.0221	5.43	1
11031	123678-HxCDF	57117-44-9	0.0902 JBQ	0.0187	5.43	1
11031	123789-HxCDF	72918-21-9	0.113 JB	0.0236	5.43	1
11031	234678-HxCDF	60851-34-5	0.0998 JBQ	0.0193	5.43	1
11031	1234678-HpCDF	67562-39-4	0.202 JB	0.0147	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0955 JBQ	0.0235	5.43	1
11031	OCDF	39001-02-0	0.344 JB	0.0637	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282758
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7917 SDG#: DX079-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA8N-SB-2.5-3.5

LLI Sample # SW 6282758
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 10:05

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7917 SDG#: DX079-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 01:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282759
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7918 SDG#: DX079-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282759
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7918 SDG#: DX079-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0251 JBQ	0.0189	1.09	1
11031	12378-PeCDD	40321-76-4	0.112 JB	0.0285	5.47	1
11031	123478-HxCDD	39227-28-6	0.0816 JBQ	0.0239	5.47	1
11031	123678-HxCDD	57653-85-7	0.127 JB	0.0250	5.47	1
11031	123789-HxCDD	19408-74-3	0.137 JB	0.0239	5.47	1
11031	1234678-HpCDD	35822-46-9	0.460 JB	0.0394	5.47	1
11031	OCDD	3268-87-9	2.64 JB	0.0358	10.9	1
11031	2378-TCDF	51207-31-9	0.0513 J	0.0255	1.09	1
11031	12378-PeCDF	57117-41-6	0.168 JB	0.0159	5.47	1
11031	23478-PeCDF	57117-31-4	0.188 JBQ	0.0163	5.47	1
11031	123478-HxCDF	70648-26-9	0.139 JBQ	0.0231	5.47	1
11031	123678-HxCDF	57117-44-9	0.156 JB	0.0201	5.47	1
11031	123789-HxCDF	72918-21-9	0.178 JB	0.0249	5.47	1
11031	234678-HxCDF	60851-34-5	0.155 JBQ	0.0201	5.47	1
11031	1234678-HpCDF	67562-39-4	0.359 JB	0.0168	5.47	1
11031	1234789-HpCDF	55673-89-7	0.164 JBQ	0.0283	5.47	1
11031	OCDF	39001-02-0	0.547 JB	0.0620	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-129-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282759
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7918 SDG#: DX079-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-129-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA8N-SB-4.0-5.0

LLI Sample # SW 6282759
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 09:16

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7918 SDG#: DX079-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 01:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282760
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7919 SDG#: DX079-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282760
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7919 SDG#: DX079-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0674	JBQ	0.0227	1.10	1
11031	12378-PeCDD	40321-76-4	0.219	JB	0.0323	5.49	1
11031	123478-HxCDD	39227-28-6	0.203	JBQ	0.0317	5.49	1
11031	123678-HxCDD	57653-85-7	0.237	JBQ	0.0314	5.49	1
11031	123789-HxCDD	19408-74-3	0.228	JB	0.0302	5.49	1
11031	1234678-HpCDD	35822-46-9	1.34	JB	0.0440	5.49	1
11031	OCDD	3268-87-9	12.9	B	0.0399	11.0	1
11031	2378-TCDF	51207-31-9	0.0263	U	0.0263	1.10	1
11031	12378-PeCDF	57117-41-6	0.352	JB	0.0201	5.49	1
11031	23478-PeCDF	57117-31-4	0.304	JB	0.0202	5.49	1
11031	123478-HxCDF	70648-26-9	0.338	JB	0.0322	5.49	1
11031	123678-HxCDF	57117-44-9	0.232	JBQ	0.0282	5.49	1
11031	123789-HxCDF	72918-21-9	0.287	JBQ	0.0319	5.49	1
11031	234678-HxCDF	60851-34-5	0.250	JB	0.0294	5.49	1
11031	1234678-HpCDF	67562-39-4	0.448	JB	0.0165	5.49	1
11031	1234789-HpCDF	55673-89-7	0.186	JB	0.0278	5.49	1
11031	OCDF	39001-02-0	0.597	JBQ	0.0549	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282760
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7919 SDG#: DX079-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-4.0-5.0

LLI Sample # SW 6282760
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:20

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7919 SDG#: DX079-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 05:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282761
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7920 SDG#: DX079-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282761
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7920 SDG#: DX079-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.106	JB	0.0367	1.12	1
11031	12378-PeCDD	40321-76-4	0.422	JBQ	0.0692	5.58	1
11031	123478-HxCDD	39227-28-6	0.388	JB	0.0589	5.58	1
11031	123678-HxCDD	57653-85-7	1.07	JBQ	0.0603	5.58	1
11031	123789-HxCDD	19408-74-3	0.887	JB	0.0589	5.58	1
11031	1234678-HpCDD	35822-46-9	13.3	B	0.0619	5.58	1
11031	OCDD	3268-87-9	92.2	B	0.0775	11.2	1
11031	2378-TCDF	51207-31-9	0.743	J	0.0914	1.12	1
11031	12378-PeCDF	57117-41-6	0.977	JB	0.0452	5.58	1
11031	23478-PeCDF	57117-31-4	1.34	JB	0.0447	5.58	1
11031	123478-HxCDF	70648-26-9	1.27	JB	0.0604	5.58	1
11031	123678-HxCDF	57117-44-9	0.956	JB	0.0543	5.58	1
11031	123789-HxCDF	72918-21-9	0.503	JBQ	0.0696	5.58	1
11031	234678-HxCDF	60851-34-5	1.25	JB	0.0582	5.58	1
11031	1234678-HpCDF	67562-39-4	3.72	JB	0.0332	5.58	1
11031	1234789-HpCDF	55673-89-7	0.502	JB	0.0494	5.58	1
11031	OCDF	39001-02-0	3.59	JB	0.0605	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282761
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7920 SDG#: DX079-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA8N-SB-9.0-10.0

LLI Sample # SW 6282761
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 15:25

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7920 SDG#: DX079-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 06:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB09-SA5N-SB-051011 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282762
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7921 SDG#: DX079-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.127	U	0.127	2.06	1
10915	12378-PeCDD	40321-76-4	0.151	JBQ	0.133	10.3	1
10915	123478-HxCDD	39227-28-6	0.137	JBQ	0.116	10.3	1
10915	123678-HxCDD	57653-85-7	0.176	JBQ	0.122	10.3	1
10915	123789-HxCDD	19408-74-3	0.230	JB	0.119	10.3	1
10915	1234678-HpCDD	35822-46-9	1.73	JB	0.176	10.3	1
10915	OCDD	3268-87-9	3.33	JB	0.205	20.6	1
10915	2378-TCDF	51207-31-9	0.189	JBQ	0.0962	2.06	1
10915	12378-PeCDF	57117-41-6	0.148	J	0.0722	10.3	1
10915	23478-PeCDF	57117-31-4	0.389	JB	0.0642	10.3	1
10915	123478-HxCDF	70648-26-9	0.309	JB	0.0726	10.3	1
10915	123678-HxCDF	57117-44-9	0.221	JBQ	0.0697	10.3	1
10915	123789-HxCDF	72918-21-9	0.0794	U	0.0794	10.3	1
10915	234678-HxCDF	60851-34-5	0.331	JB	0.0688	10.3	1
10915	1234678-HpCDF	67562-39-4	0.905	JB	0.0753	10.3	1
10915	1234789-HpCDF	55673-89-7	0.338	JB	0.0901	10.3	1
10915	OCDF	39001-02-0	0.779	JBQ	0.185	20.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB09-SA5N-SB-051011 Water**
SSFL Area IV Collocated Soil Sampling
EB09-SA5N-SB-051011

LLI Sample # WW 6282762
LLI Group # 1246284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/10/2011 12:00

Submitted: 05/11/2011 09:30
Reported: 05/31/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7921 SDG#: DX079-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137002	05/20/2011 12:44	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11137002	05/18/2011 07:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246284
Reported: 05/31/11 at 01:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11139162401A	Sample number(s): 6282757-6282761								
Moisture Content by 160.3					100		80-120		
Batch number: 11147162401A	Sample number(s): 6282756								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137001	Sample number(s): 6282756-6282761								
2378-TCDD	0.0449 J	0.0174	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0632 J	0.0228	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0292 J	0.0186	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0513 J	0.0190	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0377 J	0.0186	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.254 J	0.0262	5.00	ng/kg	96		70-140		
OCDD	0.399 J	0.0224	10.0	ng/kg	95		78-144		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0253 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0780 J	0.0121	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0716 J	0.0143	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0503 J	0.0125	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0917 J	0.0156	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0914 J	0.0127	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.188 J	0.0100	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.106 J	0.0179	5.00	ng/kg	96		78-138		
OCDF	0.292 J	0.0360	10.0	ng/kg	97		63-170		
Batch number: 11137002	Sample number(s): 6282762								
2378-TCDD	0.128 J	0.105	2.00	pg/l	83		67-158		
12378-PeCDD	0.307 J	0.118	10.0	pg/l	87		70-142		
123478-HxCDD	0.220 J	0.104	10.0	pg/l	88		70-164		
123678-HxCDD	0.252 J	0.107	10.0	pg/l	88		76-134		
123789-HxCDD	0.381 J	0.103	10.0	pg/l	88		64-162		
1234678-HpCDD	1.77 J	0.168	10.0	pg/l	89		70-140		
OCDD	3.80 J	0.197	20.0	pg/l	93		78-144		
2378-TCDF	0.106 J	0.0908	2.00	pg/l	97		75-158		
12378-PeCDF	0.0606 U	0.0606	10.0	pg/l	94		80-134		
23478-PeCDF	0.588 J	0.0553	10.0	pg/l	92		68-160		
123478-HxCDF	0.400 J	0.0767	10.0	pg/l	92		72-134		
123678-HxCDF	0.354 J	0.0743	10.0	pg/l	91		84-130		
123789-HxCDF	0.396 J	0.0781	10.0	pg/l	89		78-130		
234678-HxCDF	0.399 J	0.0725	10.0	pg/l	94		70-156		
1234678-HpCDF	1.41 J	0.0722	10.0	pg/l	89		82-122		
1234789-HpCDF	0.428 J	0.0855	10.0	pg/l	87		78-138		
OCDF	1.48 J	0.192	20.0	pg/l	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246284
Reported: 05/31/11 at 01:07 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139162401A	Sample number(s): 6282757-6282761					BKG: P287596			
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6282756					BKG: P281100			
Moisture Content by 160.3						16.8	15.8	6	20
Batch number: 11137001	Sample number(s): 6282756-6282761					UNSPK: P281729			
2378-TCDD	93	93	67-158	3	25				
12378-PeCDD	97	99	70-142	5	25				
123478-HxCDD	93	98	70-164	8	25				
123678-HxCDD	91	96	76-134	8	25				
123789-HxCDD	91	94	64-162	5	25				
1234678-HpCDD	80	103	70-140	8	25				
OCDD	61 (2)	146 (2)	78-144	15	25				
2378-TCDF	90	98	75-158	8	25				
12378-PeCDF	91	95	80-134	7	25				
23478-PeCDF	89	93	68-160	7	25				
123478-HxCDF	91	100	72-134	11	25				
123678-HxCDF	92	95	84-130	5	25				
123789-HxCDF	95	95	78-130	3	25				
234678-HxCDF	93	100	70-156	8	25				
1234678-HpCDF	76*	93	82-122	10	25				
1234789-HpCDF	91	94	78-138	6	25				
OCDF	85	92	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6282756	74	74	64	74	76	71
6282757	71	74	68	77	72	66
6282758	78	75	72	80	77	77
6282759	88	84	78	89	88	83
6282760	77	77	76	84	83	87
6282761	78	75	76	81	79	75
Blank	83	89	86	96	90	91
MS	82	83	80	79	83	84
MSD	81	82	82	82	81	79
OPR	72	74	74	82	76	75

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246284
Reported: 05/31/11 at 01:07 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6282756	79	62	53	89	79	75
6282757	81	56	49	91	78	77
6282758	87	68	57	91	79	82
6282759	98	77	67	103	89	92
6282760	92	71	64	94	79	86
6282761	84	72	64	87	75	81
Blank	113	84	82	107	92	96
MS	77	79	69	96	82	83
MSD	76	76	68	94	81	81
OPR	96	67	65	95	78	81

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6282756	76	82	76	67	71	78
6282757	74	78	71	65	68	78
6282758	82	84	80	72	74	79
6282759	93	97	90	85	83	92
6282760	88	90	85	79	74	82
6282761	81	81	80	74	77	78
Blank	96	96	100	102	80	92
MS	83	85	81	72	83	82
MSD	80	83	78	70	83	82
OPR	82	82	82	82	68	79

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11137002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6282762	78	83	84	85	86	86
Blank	90	94	93	95	96	103
OPR	80	84	84	84	88	90

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6282762	79	77	71	77	79	79
Blank	87	86	80	93	90	86
OPR	80	82	78	79	81	78

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6282762	77	77	72	67	80	82
Blank	86	86	80	75	92	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246284
Reported: 05/31/11 at 01:07 PM

Surrogate Quality Control

OPR	80	81	74	72	82	84
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1246284 Samp6# 6282756-62

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: TRap

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel+Purgo EPA 1613b	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs:EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TPH-E/R EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-105-SA8N-SB-4.5	05.10.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-105-SA8N-SB-4.0-5.0	05.10.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-127-SA8N-SB-4.5	05.10.11	1104	SOIL	NONE	5-Encores										X	X	X										
SL-127-SA8N-SB-4.0-5.0	05.10.11	1110	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-126-SA8N-SB-3.0	05.10.11	0958	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA8N-SB-2.5-3.5	05.10.11	1005	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-129-SA8N-SB-4.5	05.10.11	0912	SOIL	NONE	5-Encores										X	X	X										
SL-129-SA8N-SB-4.0-5.0	05.10.11	0916	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-137-SA8N-SB-4.5	05.10.11	1510	SOIL	NONE	4-Encores										X	X											
SL-137-SA8N-SB-4.0-5.0	05.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-137-SA8N-SB-9.0-10.0	05.10.11	1525	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
EB09-SA5B-SB-051011	05.10.11	1200	WATER	NONE	5-1L Amber Glass			X	X	X																	
EB09-SA5B-SB-051011	05.10.11	1200	WATER	HNO3	1-500mL plastic	X																					
EB09-SA5B-SB-051011	05.10.11	1200	WATER	NONE	1-500mL plastic		X				X	X	X														
EB09-SA5B-SB-051011	05.10.11	1200	WATER	HCL	6-40mL Vials										X	X											
TB-051011	05.10.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/10/2011 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/11/11 0830	8695 1441 7700,7696	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, May 11, 2011 3:21 PM
To: Nicole Maljovec
Subject: COC correction

Attachments: COC 05 10 11.xlsx

A# 13013
Grp# 1246284
Sample# 628275C-62

COC 05 10 11.xlsx
(23 KB)

Hi Nicole

I found another error on our COC from yesterday. The Equipment blank should she named :

EB09-SA8N-SB-051011

I have attached a corrected COC. Sorry for the mistake!

Thanks,

Pam

A#13013 Grp#1246284 Sample#G2827560-02

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV CO-LOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-105-SA8N-SB-4.5	05.10.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-105-SA8N-SB-4.0-5.0	05.10.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-127-SA8N-SB-4.5	05.10.11	1104	SOIL	NONE	5-Encores										X	X	X										
SL-127-SA8N-SB-4.0-5.0	05.10.11	1110	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-128-SA8N-SB-3.0	05.10.11	0958	SOIL	NONE	5-Encores										X	X	X										
SL-128-SA8N-SB-2.5-3.5	05.10.11	1005	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-129-SA8N-SB-4.5	05.10.11	0912	SOIL	NONE	5-Encores										X	X	X										
SL-129-SA8N-SB-4.0-5.0	05.10.11	0916	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X					X									
SL-137-SA8N-SB-4.5	05.10.11	1510	SOIL	NONE	4-Encores										X	X											
SL-137-SA8N-SB-4.0-5.0	05.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-137-SA8N-SB-9.0-10.0	05.10.11	1525	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
EB09-SA8N-SB-051011	05.10.11	1200	WATER	NONE	5-1L Amber Glass			X	X	X																	
EB09-SA8N-SB-051011	05.10.11	1200	WATER	HNO3	1-500mL plastic	X																					
EB09-SA8N-SB-051011	05.10.11	1200	WATER	NONE	1-500mL plastic		X				X	X	X														
EB09-SA8N-SB-051011	05.10.11	1200	WATER	HCL	6-40mL Vials										X	X											
TB-051011	05.10.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Other Instructions and Notes: Amended COC NLM 5/16/11

Relinquished by: (*Signature*)	Date/Time 5/10/2011 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1441 7700,7696	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/12/2011
Group Number: 1246609
SDG: DE148
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-120-SA8N-SB-4.0-5.0 Soil	6285036
SL-120-SA8N-SB-9.0-10.0 Soil	6285037
SL-136-SA8N-SB-4.0-5.0 Soil	6285038
SL-136-SA8N-SB-9.0-10.0 Soil	6285039
EB10-SA8N-SB-051111 Water	6285040
TB-051111 Water	6285041

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.93
06192	Methylene Chloride	75-09-2	8.1		0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		22.12
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.5	J	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	900	U	900	2,700		5
04688	Benzidine	92-87-5	6,300	U	6,300	18,000		5
04688	Benzoic acid	65-85-0	900	U	900	2,700		5
04688	Benzyl alcohol	100-51-6	900	U	900	2,700		5
04688	4-Bromophenyl-phenylether	101-55-3	90	U	90	900		5
04688	Carbazole	86-74-8	90	U	90	900		5
04688	4-Chloro-3-methylphenol	59-50-7	180	U	180	900		5
04688	4-Chloroaniline	106-47-8	360	U	360	900		5
04688	bis(2-Chloroethoxy)methane	111-91-1	90	U	90	900		5
04688	bis(2-Chloroethyl)ether	111-44-4	90	U	90	900		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	90	U	90	900		5
04688	2-Chloronaphthalene	91-58-7	90	U	90	900		5
04688	2-Chlorophenol	95-57-8	90	U	90	900		5
04688	4-Chlorophenyl-phenylether	7005-72-3	180	U	180	900		5
04688	Dibenzofuran	132-64-9	90	U	90	900		5
04688	1,2-Dichlorobenzene	95-50-1	90	U	90	900		5
04688	1,3-Dichlorobenzene	541-73-1	90	U	90	900		5
04688	1,4-Dichlorobenzene	106-46-7	90	U	90	900		5
04688	3,3'-Dichlorobenzidine	91-94-1	540	U	540	1,800		5
04688	2,4-Dichlorophenol	120-83-2	90	U	90	900		5
04688	2,4-Dimethylphenol	105-67-9	180	U	180	900		5
04688	3,5-Dimethylphenol	108-68-9	180	U	180	900		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	900	U	900	2,700		5
04688	2,4-Dinitrophenol	51-28-5	1,800	U	1,800	5,400		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	180	U	180	900		5
04688	2,6-Dinitrotoluene	606-20-2	90	U	90	900		5
04688	1,2-Diphenylhydrazine	122-66-7	90	U	90	900		5
04688	Hexachlorobenzene	118-74-1	90	U	90	900		5
04688	Hexachlorobutadiene	87-68-3	360	U	360	900		5
04688	Hexachlorocyclopentadiene	77-47-4	900	U	900	2,700		5
04688	Hexachloroethane	67-72-1	90	U	90	900		5
04688	Isophorone	78-59-1	90	U	90	900		5
04688	2-Methylphenol	95-48-7	180	U	180	900		5
04688	4-Methylphenol	106-44-5	180	U	180	900		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	90	U	90	900		5
04688	3-Nitroaniline	99-09-2	180	U	180	900		5
04688	4-Nitroaniline	100-01-6	360	U	360	900		5
04688	Nitrobenzene	98-95-3	90	U	90	900		5
04688	2-Nitrophenol	88-75-5	90	U	90	900		5
04688	4-Nitrophenol	100-02-7	900	U	900	2,700		5
04688	N-Nitroso-di-n-propylamine	621-64-7	90	U	90	900		5
04688	N-Nitrosodiphenylamine	86-30-6	90	U	90	900		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	900	U	900	2,700		5
04688	Phenol	108-95-2	90	U	90	900		5
04688	1,2,4-Trichlorobenzene	120-82-1	90	U	90	900		5
04688	2,4,5-Trichlorophenol	95-95-4	180	U	180	900		5
04688	2,4,6-Trichlorophenol	88-06-2	180	U	180	900		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	7.2	U	7.2	18		1
10138	Acenaphthylene	208-96-8	3.6	U	3.6	18		1
10138	Anthracene	120-12-7	3.6	U	3.6	18		1
10138	Benzo(a)anthracene	56-55-3	7.2	U	7.2	18		1
10138	Benzo(a)pyrene	50-32-8	7.2	U	7.2	18		1
10138	Benzo(b)fluoranthene	205-99-2	37		7.2	18		1
10138	Benzo(g,h,i)perylene	191-24-2	13	J	7.2	18		1
10138	Benzo(k)fluoranthene	207-08-9	7.2	U	7.2	18		1
10138	Butylbenzylphthalate	85-68-7	65	U	65	200		1
10138	Di-n-butylphthalate	84-74-2	65	U	65	200		1
10138	Chrysene	218-01-9	22		3.6	18		1

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Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	7.2	U	7.2	18		1
10138	Diethylphthalate	84-66-2	65	U	65	200		1
10138	Dimethylphthalate	131-11-3	65	U	65	200		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	65	U	65	200		1
10138	Fluoranthene	206-44-0	10	J	7.2	18		1
10138	Fluorene	86-73-7	7.2	U	7.2	18		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.2	U	7.2	18		1
10138	1-Methylnaphthalene	90-12-0	7.2	U	7.2	18		1
10138	2-Methylnaphthalene	91-57-6	7.2	U	7.2	18		1
10138	Naphthalene	91-20-3	7.2	U	7.2	18		1
10138	N-Nitrosodimethylamine	62-75-9	7.2	U	7.2	18		1
10138	Di-n-octylphthalate	117-84-0	65	U	65	200		1
10138	Phenanthrene	85-01-8	7.2	U	7.2	18		1
10138	Pyrene	129-00-0	11	J	7.2	18		1
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1

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Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.1	J	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C15-C20)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C21-C30)	n.a.	10		0.87	2.6		2
10199	EFH (C30 - C40)	n.a.	73		0.87	2.6		2
10199	EFH (C8-C11)	n.a.	1.3	J	0.87	2.6		2

The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. All batch QC associated with the re-extraction is within the limits. Similar results were observed for both sample trials; therefore, the original trial is reported

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1

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Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.41	21.5		1
07914	Boron	7440-42-8	13.3		0.958	5.38		1
01650	Calcium	7440-70-2	3,940		6.60	21.5		1
01654	Iron	7439-89-6	21,800		5.07	21.5		1
01656	Lithium	7439-93-2	18.9		0.24	2.2		1
01657	Magnesium	7439-95-4	4,470		2.73	10.8		1
06958	Manganese	7439-96-5	254		0.0839	0.538		1
10145	Phosphorus	7723-14-0	277		0.603	10.8		1
01662	Potassium	7440-09-7	2,310		19.4	53.8		1
01667	Sodium	7440-23-5	84.4	J	40.1	108		1
07968	Strontium	7440-24-6	27.7		0.0667	0.538		1
06969	Tin	7440-31-5	2.81	J	1.08	10.8		1
06970	Titanium	7440-32-6	986		0.409	1.08		1
10146	Zirconium	7440-67-7	1.06	J	0.904	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.45		0.0853	0.426		2
06126	Barium	7440-39-3	120		0.115	0.426		2
06127	Beryllium	7440-41-7	0.630		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.251		0.0426	0.107		2
06131	Chromium	7440-47-3	20.5		0.128	0.426		2
06132	Cobalt	7440-48-4	7.36		0.0213	0.107		2
06133	Copper	7440-50-8	12.5		0.0703	0.426		2
06135	Lead	7439-92-1	14.1		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.568		0.0533	0.107		2
06139	Nickel	7440-02-0	14.0		0.107	0.426		2
06141	Selenium	7782-49-2	0.160	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0374	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.299		0.0320	0.107		2

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Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	36.7		0.0234	0.107		2
06149	Zinc	7440-66-6	63.4		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	377		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-120-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
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Suite 210
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148-1 SDG#: DE148-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 08:46	Holly Berry	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 11:09	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113224390	05/12/2011 19:45	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 16:16	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 17:21	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 17:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 11:49	Carrie E Miller	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:44	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 12:10	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 01:47	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:15	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 00:47	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 16:09	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 20:45	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 18:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/18/2011 02:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 06:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 10:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 01:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/20/2011 22:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11139243202A	05/23/2011 06:22	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 10:05	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285036
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-1 SDG#: DE148-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	6.1		0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	55.2		19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.90	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.3	J	6.9	21		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.3	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	1.8	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	U	0.92	2.7		2
10199	EFH (C15-C20)	n.a.	0.92	U	0.92	2.7		2
10199	EFH (C21-C30)	n.a.	17		0.92	2.7		2
10199	EFH (C30 - C40)	n.a.	100		0.92	2.7		2
10199	EFH (C8-C11)	n.a.	1.3	J	0.92	2.7		2

The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. All batch QC associated with the re-extraction is within the limits. Similar results were observed for both sample trials; therefore, the original trial is reported

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.63	22.4		1
07914	Boron	7440-42-8	18.2		0.995	5.59		1
01650	Calcium	7440-70-2	4,710		6.86	22.4		1
01654	Iron	7439-89-6	24,800		5.27	22.4		1
01656	Lithium	7439-93-2	24.6		0.25	2.2		1
01657	Magnesium	7439-95-4	5,010		2.84	11.2		1
06958	Manganese	7439-96-5	300		0.0872	0.559		1
10145	Phosphorus	7723-14-0	227		0.626	11.2		1
01662	Potassium	7440-09-7	2,480		20.1	55.9		1
01667	Sodium	7440-23-5	281		41.7	112		1
07968	Strontium	7440-24-6	31.9		0.0693	0.559		1
06969	Tin	7440-31-5	2.88	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,090		0.425	1.12		1
10146	Zirconium	7440-67-7	2.15	J	0.940	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.32		0.0886	0.443		2
06126	Barium	7440-39-3	94.3		0.120	0.443		2
06127	Beryllium	7440-41-7	0.630		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0959	J	0.0443	0.111		2
06131	Chromium	7440-47-3	19.4		0.133	0.443		2
06132	Cobalt	7440-48-4	6.22		0.0222	0.111		2
06133	Copper	7440-50-8	9.29		0.0731	0.443		2
06135	Lead	7439-92-1	7.47		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.330		0.0554	0.111		2
06139	Nickel	7440-02-0	12.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.113	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0466	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.238		0.0332	0.111		2
06148	Vanadium	7440-62-2	38.0		0.0244	0.111		2
06149	Zinc	7440-66-6	46.3		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	378		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-120-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 09:08	Holly Berry	0.85

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 11:29	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113224390	05/12/2011 19:50	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 16:50	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 17:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 18:11	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 12:25	Carrie E Miller	20.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:49	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 12:52	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 02:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 01:42	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 17:49	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 21:00	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 18:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111320022A	05/18/2011 02:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111320022A	05/13/2011 10:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1

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Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

148-2 SDG#: DE148-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:32	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 10:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 01:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/20/2011 23:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 06:28	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11140102201A	05/21/2011 10:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11140102201A	05/20/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285037
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-2 SDG#: DE148-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.92
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.92
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.92
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.92
06192	Chloroform	67-66-3	0.13	J	0.12	3.9		0.92
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.92
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.92
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.92
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.92
06192	Methylene Chloride	75-09-2	20		0.24	3.9		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.92

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.92
06192	Toluene	108-88-3	0.08	J	0.08	3.9		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		25
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,400		5.34	21.2		1
07914	Boron	7440-42-8	9.97		0.945	5.31		1
01650	Calcium	7440-70-2	5,730		6.51	21.2		1
01654	Iron	7439-89-6	18,600		5.00	21.2		1
01656	Lithium	7439-93-2	31.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,450		2.70	10.6		1
06958	Manganese	7439-96-5	270		0.0829	0.531		1
10145	Phosphorus	7723-14-0	342		0.595	10.6		1
01662	Potassium	7440-09-7	3,240		19.1	53.1		1
01667	Sodium	7440-23-5	89.1	J	39.6	106		1
07968	Strontium	7440-24-6	12.4		0.0659	0.531		1
06969	Tin	7440-31-5	2.81	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,040		0.404	1.06		1
10146	Zirconium	7440-67-7	0.892	U	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0644	U	0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	2.54	0.0858	0.429		2
06126	Barium	7440-39-3	60.6	0.116	0.429		2
06127	Beryllium	7440-41-7	0.321	0.0172	0.107		2
06128	Cadmium	7440-43-9	0.0808 J	0.0429	0.107		2
06131	Chromium	7440-47-3	8.73	0.129	0.429		2
06132	Cobalt	7440-48-4	3.65	0.0215	0.107		2
06133	Copper	7440-50-8	3.91	0.0708	0.429		2
06135	Lead	7439-92-1	10.8	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.246	0.0536	0.107		2
06139	Nickel	7440-02-0	5.73	0.107	0.429		2
06141	Selenium	7782-49-2	0.133 J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0129 U	0.0129	0.107		2
06145	Thallium	7440-28-0	0.220	0.0322	0.107		2
06148	Vanadium	7440-62-2	21.1	0.0236	0.107		2
06149	Zinc	7440-66-6	53.7	0.601	3.22		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	385	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-136-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 09:30	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 11:49	Jason M Long	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113224390	05/12/2011 19:59	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113224390	05/12/2011 19:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 18:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 18:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 02:01	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285038
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-3 SDG#: DE148-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 06:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 12:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/20/2011 23:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 06:41	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285039
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-4 SDG#: DE148-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285039
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-4 SDG#: DE148-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285039
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-4 SDG#: DE148-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		5.25	20.9		1
07914	Boron	7440-42-8	11.3		0.929	5.22		1
01650	Calcium	7440-70-2	1,690		6.40	20.9		1
01654	Iron	7439-89-6	20,100		4.92	20.9		1
01656	Lithium	7439-93-2	19.3		0.23	2.1		1
01657	Magnesium	7439-95-4	3,920		2.65	10.4		1
06958	Manganese	7439-96-5	263		0.0814	0.522		1
10145	Phosphorus	7723-14-0	163		0.585	10.4		1
01662	Potassium	7440-09-7	1,940		18.8	52.2		1
01667	Sodium	7440-23-5	213		38.9	104		1
07968	Strontium	7440-24-6	19.1		0.0647	0.522		1
06969	Tin	7440-31-5	2.62	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,040		0.397	1.04		1
10146	Zirconium	7440-67-7	0.930	J	0.877	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.129	J	0.0614	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.84		0.0819	0.409		2
06126	Barium	7440-39-3	90.3		0.111	0.409		2
06127	Beryllium	7440-41-7	0.767		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.0588	J	0.0409	0.102		2
06131	Chromium	7440-47-3	18.4		0.123	0.409		2
06132	Cobalt	7440-48-4	8.03		0.0205	0.102		2
06133	Copper	7440-50-8	6.72		0.0675	0.409		2
06135	Lead	7439-92-1	6.93		0.0106	0.205		2
06138	Molybdenum	7439-98-7	0.762		0.0512	0.102		2
06139	Nickel	7440-02-0	11.1		0.102	0.409		2
06141	Selenium	7782-49-2	0.144	J	0.0409	0.409		2
06142	Silver	7440-22-4	0.0435	J	0.0123	0.102		2
06145	Thallium	7440-28-0	0.310		0.0307	0.102		2
06148	Vanadium	7440-62-2	40.5		0.0225	0.102		2
06149	Zinc	7440-66-6	46.8		0.573	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.84	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285039
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-4 SDG#: DE148-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	417		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 18:34	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 19:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 02:19	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285039
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-4 SDG#: DE148-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201A	05/22/2011 13:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 00:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11139243202A	05/23/2011 06:53	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201A	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101A	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401A	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11139243202A	05/19/2011 13:55	Kenneth A Bell	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA8N-SB-051111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA8N-SB-051111

LLI Sample # WW 6285040
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 12:30

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-5 SDG#: DE148-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.765	J	0.519	1.04		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.61		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA8N-SB-051111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA8N-SB-051111

LLI Sample # WW 6285040
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 12:30

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-5 SDG#: DE148-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.65		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.65		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.65		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.65		1
10365	EFH (C8-C11)	n.a.	0.14	J	0.11	0.65		1
	EFH was detected in the C8-C11 range of the method blank associated with this sample. Due to insufficient sample volume, a re-extraction could not be performed in order to confirm results.							
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	30	U	30	100		1
08278	Propylene glycol	57-55-6	40	U	40	100		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11137WAF026	05/18/2011 14:52	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB10-SA8N-SB-051111 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA8N-SB-051111

LLI Sample # WW 6285040
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 12:30

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-5 SDG#: DE148-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11137WAF026	05/18/2011 01:00	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11136A20A	05/17/2011 15:57	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11136A20A	05/17/2011 15:57	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111370022A	05/23/2011 21:22	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111330013A	05/16/2011 19:13	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111330013A	05/14/2011 07:00	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111370022A	05/18/2011 08:00	Olivia Arosemena	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111360027A	05/18/2011 14:42	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111360031A	05/16/2011 20:11	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111380001A	05/18/2011 19:10	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111340014A	05/18/2011 07:26	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111360027A	05/17/2011 08:40	Cynthia J Salvatori	1
10304	Terphenyls water prep	SW-846 3510C	1	111340014A	05/16/2011 09:10	Cynthia J Salvatori	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11132196902C	05/13/2011 08:11	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11144117101B	05/25/2011 10:40	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11144117101B	05/24/2011 09:10	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-051111 Water
SSFL Area IV Collocated Soil Sampling
TB-051111

LLI Sample # WW 6285041
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:00

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-6 SDG#: DE148-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-051111 Water
SSFL Area IV Collocated Soil Sampling
TB-051111

LLI Sample # WW 6285041
LLI Group # 1246609
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:00

Submitted: 05/12/2011 09:30
Reported: 06/10/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

148-6 SDG#: DE148-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/17/2011 23:07	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 12:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011 12:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/17/2011 23:07	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11136A20A	05/17/2011 16:19	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11136A20A	05/17/2011 16:19	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111371AA	Sample number(s): 6285036-6285038									
Acetone	6.7	U	6.7	8.0	ug/kg	109	106	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	111	112	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107	108	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	93	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	89	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	89	90	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	121*	121*	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	125*	125*	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	109	109	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	105	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	108	107	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	89	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	105	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	103	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	112	112	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	108	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	63	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	96	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	101	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108	107	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	109	109	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108	109	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	90	89	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	111	114	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	97	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	105	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111	113	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	107	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	110	109	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	100	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	94	97	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	108	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	107	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	86	86	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	111	113	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	93	94	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111	110	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	119	120	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	92	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	97	98	61-134	1	30
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	104	95	76-124	9	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	123*	120	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	101	100	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	110	110	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99	103	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98	97	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	103	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	103	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98	94	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	103	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	114	115	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	117	117	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	99	97	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109	108	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	104	80-120	0	30
Batch number: E111371AA	Sample number(s): 6285041									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	109	80-123	1	30
Batch number: E111381AA	Sample number(s): 6285036-6285038									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	106	70-130	2	30
Batch number: L111372AA	Sample number(s): 6285041									
Acetone	6	U	6.	20	ug/l	90	85	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	94	89	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	96	90	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	90	87	80-120	4	30
Bromoform	1	U	1.	5	ug/l	81	78	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	117	113	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	91	87	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	91	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	92	87	75-123	6	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	91	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	110	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	90	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	96	92	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	109	104	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	93	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	54	55	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	87	84	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	88	84	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	92	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	92	87	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	89	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	94	79-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	95	92	70-130	4	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	93	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	92	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	88	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	93	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	86	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	93	79-120	5	30
Freon 113	2	U	2.	10	ug/l	100	92	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	95	93	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	82	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	91	87	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	92	89	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	89	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	87	70-121	4	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	90	80-120	5	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	88	80-120	6	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	96	71-120	5	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	87	80-121	6	30
Toluene	0.7	U	0.7	5	ug/l	98	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	83	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	89	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	93	90	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	106	102	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	90	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	92	75-120	5	30
Vinyl Chloride	1	U	1.	5	ug/l	109	106	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	91	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
Batch number: 11134SLA026	Sample number(s): 6285036-6285039									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	102		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	116		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	102		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	126		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11136SLC026	Sample number(s): 6285036-6285039									
Aniline	170 U		170.	500	ug/kg	63		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	70		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	76		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	78*		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	79		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	78		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	75		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	76		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	81		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	79		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	86		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	75*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	75		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	87		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	79		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	84		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	65		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	86		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	85		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	82		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	87		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	77		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	67		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	73		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	79		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	83		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	78		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	81		81-114		
4-Nitrophenol	170		170.	500	ug/kg	80		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	72		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	89		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	74		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	79		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 11137SLE026	Sample number(s): 6285036-6285037									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11137WAF026	Sample number(s): 6285040									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	79	77	70-130	2	30
Batch number: 11132A34B	Sample number(s): 6285036-6285037									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11136A20A	Sample number(s): 6285040-6285041									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111370002A	Sample number(s): 6285036-6285037									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	116		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	93		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	113		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800	U	800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
Batch number: 111370022A	Sample number(s): 6285040									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	98	94	80-120	4	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	91	80-120	4	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	60	67	50-122	11	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	60	67	50-122	11	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	89	92	72-117	3	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	91	87	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	97	94	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	84	83	65-125	1	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	84	89	75-121	6	30
Nitroglycerin	5.2	U	5.2	15	ug/l	88	88	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	88	83	74-120	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	89	84	69-107	6	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	84	81	80-120	4	30
PETN	6.0	U	6.0	18	ug/l	113	108	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	79	83	70-125	5	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	89	72-141	3	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	83	84	53-129	1	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	91	86	76-109	6	30
Batch number: 111330013A	Sample number(s): 6285040									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	98	69-130	0	30
Batch number: 111360003A	Sample number(s): 6285036-6285037									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111390003A	Sample number(s): 6285036									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111370008A	Sample number(s): 6285036-6285039									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	92	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	115		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111360027A	Sample number(s): 6285040									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	80	80	69-125	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	81	80	77-125	2	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	77	68-124	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	87	80-121	0	30
EFH (C8-C11)	0.10	J	0.10	0.60	mg/l	64	66	46-103	3	30
Batch number: 111370025A	Sample number(s): 6285036-6285037									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	79		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	96		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		67-127		
EFH (C8-C11)	1.3		0.40	1.2	mg/kg	198*		54-107		
Batch number: 111330017A	Sample number(s): 6285036-6285037									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111360001A	Sample number(s): 6285036-6285037									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111360031A	Sample number(s): 6285040									
Ethanol	200	U	200.	1,000	ug/l	92		66-132		
Isopropanol	200	U	200.	1,000	ug/l	96		75-125		
Methanol	200	U	200.	1,000	ug/l	88		71-140		
Batch number: 111380001A	Sample number(s): 6285040									
Diethylene glycol	10	U	10.	100	mg/l	90		78-126		
Ethylene glycol	30	U	30.	100	mg/l	85		80-124		
Propylene glycol	40	U	40.	100	mg/l	85		80-120		
Batch number: 111320022A	Sample number(s): 6285036-6285037									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
Batch number: 111340014A	Sample number(s): 6285040									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	81	77	75-125	5	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	94	94	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	87	87	75-125	0	20
Batch number: 111391026001A	Sample number(s): 6285036-6285039									
Antimony	0.0600	U	0.0600	0.200	mg/kg	96		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	101		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	95		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	96		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	95		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	98		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	90		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	96		81-112		
Batch number: 111391026001B	Sample number(s): 6285036-6285039									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111391026001C	Sample number(s): 6285036-6285039									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111391026001D	Sample number(s): 6285036-6285039									
Barium	0.108	U	0.108	0.400	mg/kg	92		81-111		
Batch number: 111395708002	Sample number(s): 6285036-6285039									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	100		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		

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Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.65	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	82		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111395711001	Sample number(s): 6285036-6285039									
Mercury	0.0027	U	0.0027	0.0942	mg/kg	91		88-123		
Batch number: 11132196902C	Sample number(s): 6285040									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	102	104	90-110	1	20
Batch number: 11139243202A	Sample number(s): 6285036-6285039									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11139495201A	Sample number(s): 6285036-6285039									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11140102201A	Sample number(s): 6285036-6285037									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11140621201A	Sample number(s): 6285036-6285039									
11a Anions by 300.0 - Fluoride	4.0	U	4.0	5.0	mg/kg	95		90-110		
Batch number: 11144117101B	Sample number(s): 6285040									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	95	91	90-110	4	20
Batch number: 11144621202B	Sample number(s): 6285036-6285037									
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11139039401A	Sample number(s): 6285036-6285039									
18a pH by 9045C						100		95-105		
Batch number: 11139182101A	Sample number(s): 6285036-6285039									
32a OR Potential						99		98-102		
Batch number: 11139162401A	Sample number(s): 6285038-6285039									
Moisture Content by 160.3						100		80-120		
Batch number: 11147162401A	Sample number(s): 6285036-6285037									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111381AA	Sample number(s): 6285036-6285038 UNSPK: P288929								
1,4-Dioxane	90	89	70-130	1	30				
Batch number: 11134SLA026	Sample number(s): 6285036-6285039 UNSPK: P282747								
Acenaphthene	89	92	63-105	4	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	91	90	67-114	2	30				
Anthracene	94	92	60-122	3	30				
Benzo(a)anthracene	97	95	59-128	1	30				
Benzo(a)pyrene	99	98	45-138	1	30				
Benzo(b)fluoranthene	102	105	43-155	3	30				
Benzo(g,h,i)perylene	91	88	33-141	3	30				
Benzo(k)fluoranthene	96	95	42-144	0	30				
Butylbenzylphthalate	109	108	57-173	1	30				
Di-n-butylphthalate	115	109	65-148	5	30				
Chrysene	94	93	48-134	1	30				
Dibenz(a,h)anthracene	97	95	22-133	1	30				
Diethylphthalate	98	98	70-136	0	30				
Dimethylphthalate	95	94	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	98	89	39-167	8	30				
Fluoranthene	99	97	26-166	2	30				
Fluorene	94	92	66-122	1	30				
Indeno(1,2,3-cd)pyrene	96	95	21-143	1	30				
1-Methylnaphthalene	93	91	72-123	2	30				
2-Methylnaphthalene	84	83	64-103	1	30				
Naphthalene	93	99	61-102	6	30				
N-Nitrosodimethylamine	88	85	48-113	3	30				
Di-n-octylphthalate	113	111	40-192	1	30				
Phenanthrene	90	88	12-165	2	30				
Pyrene	92	91	15-153	1	30				
Batch number: 11136SLC026	Sample number(s): 6285036-6285039 UNSPK: P282746								
Aniline	67	69	35-95	2	30				
Benzidine	37	38	35-141	5	30				
Benzoic acid	61	69	10-173	12	30				
Benzyl alcohol	88	89	67-115	2	30				
4-Bromophenyl-phenylether	90	90	67-129	0	30				
Carbazole	101	100	64-120	1	30				
4-Chloro-3-methylphenol	88	90	76-110	3	30				
4-Chloroaniline	71	75	23-95	6	30				
bis(2-Chloroethoxy)methane	85	86	75-104	2	30				
bis(2-Chloroethyl)ether	81	80	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	80	55-142	1	30				
2-Chloronaphthalene	94	95	50-141	1	30				
2-Chlorophenol	91	90	73-121	1	30				
4-Chlorophenyl-phenylether	87	88	80-109	3	30				
Dibenzofuran	95	94	71-112	0	30				
1,2-Dichlorobenzene	76	73	66-108	4	30				
1,3-Dichlorobenzene	73	69	63-109	5	30				
1,4-Dichlorobenzene	73	71	70-100	2	30				
3,3'-Dichlorobenzidine	62	63	16-119	2	30				
2,4-Dichlorophenol	96	99	78-117	3	30				
2,4-Dimethylphenol	84	87	78-110	4	30				
3,5-Dimethylphenol	92	90	70-130	2	30				
4,6-Dinitro-2-methylphenol	78	83	24-116	7	30				
2,4-Dinitrophenol	55	65	20-143	16	30				
2,4-Dinitrotoluene	97	98	73-113	1	30				
2,6-Dinitrotoluene	96	96	69-123	1	30				
1,2-Diphenylhydrazine	94	92	71-129	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Ethylhexyl)phthalate	100	98	63-122	1	30				
Hexachlorobenzene	100	100	77-114	0	30				
Hexachlorobutadiene	76	75	62-120	1	30				
Hexachlorocyclopentadiene	66	64	10-153	2	30				
Hexachloroethane	69	67	57-109	2	30				
Isophorone	82	82	73-102	1	30				
2-Methylphenol	87	88	75-111	1	30				
4-Methylphenol	91	92	71-111	1	30				
2-Nitroaniline	94	93	67-125	0	30				
3-Nitroaniline	93	92	59-122	0	30				
4-Nitroaniline	75	75	52-112	0	30				
Nitrobenzene	82	84	72-106	3	30				
2-Nitrophenol	89	90	74-115	2	30				
4-Nitrophenol	89	88	54-113	0	30				
N-Nitroso-di-n-propylamine	80	80	60-116	1	30				
N-Nitrosodiphenylamine	100	99	86-145	0	30				
Pentachlorophenol	73	75	28-127	3	30				
Phenol	83	84	58-126	3	30				
1,2,4-Trichlorobenzene	80	79	72-115	1	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	95	96	77-115	1	30				
Batch number: 11137SLE026	Sample number(s): 6285036-6285037 UNSPK: P267471								
N-Nitrosodimethylamine	68*	70	70-130	3	30				
Batch number: 11132A34B	Sample number(s): 6285036-6285037 UNSPK: P281100								
9a TPH by EPA 8015B Gas C5-C12	123*	111	39-118	20	30				
Batch number: 111370002A	Sample number(s): 6285036-6285037 UNSPK: P281100								
4-Amino-2,6-Dinitrotoluene	94	77*	80-127	27	50				
2-Amino-4,6-Dinitrotoluene	93	76*	80-137	27	50				
1,3-Dinitrobenzene	101	83	38-166	27	50				
2,4-Dinitrotoluene	92	76*	80-131	26	50				
2,6-Dinitrotoluene	94	77*	80-127	27	50				
HMX	73	59*	63-128	29	50				
Nitrobenzene	98	82	80-125	26	50				
Nitroglycerin	87	71*	80-120	27	50				
2-Nitrotoluene	94	79*	80-122	25	50				
3-Nitrotoluene	97	82	72-119	25	50				
4-Nitrotoluene	92	78*	80-125	25	50				
PETN	103	82	80-121	30	50				
RDX	81	62*	75-129	34	50				
Tetryl	68	58	55-174	23	50				
1,3,5-Trinitrobenzene	82	68*	82-126	26	50				
2,4,6-Trinitrotoluene	94	78*	82-130	27	50				
Batch number: 111360003A	Sample number(s): 6285036-6285037 UNSPK: P281100								
25a Formaldehyde 8315A	96	99	80-120	2	50				
Batch number: 111390003A	Sample number(s): 6285036 UNSPK: 6285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111370008A	Sample number(s): 6285036-6285039 UNSPK: 6285036								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	68	68	29-146	1	50				
PCB-1260	51	56	39-149	9	50				
Batch number: 111370025A	Sample number(s): 6285036-6285037 UNSPK: 6285036								
EFH (C12-C14)	76	81	49-123	6	20				
EFH (C15-C20)	110	106	49-123	3	20				
EFH (C21-C30)	492 (2)	249 (2)	49-123	30*	20				
EFH (C30 - C40)	1306 (2)	-595 (2)	49-123	63*	20				
EFH (C8-C11)	59	36*	49-123	12	20				
Batch number: 111330017A	Sample number(s): 6285036-6285037 UNSPK: P286419								
Ethanol	71	68	48-130	4	20				
Isopropanol	75	73	12-149	2	20				
Methanol	74	72	43-138	2	20				
Batch number: 111360001A	Sample number(s): 6285036-6285037 UNSPK: 6285036								
Diethylene glycol	43*	56*	59-109	27*	20				
Ethylene glycol	58*	75	63-107	26*	20				
Propylene glycol	63	80	63-107	24*	20				
Batch number: 111360031A	Sample number(s): 6285040 UNSPK: P287430								
Ethanol	92	92	62-145	0	20				
Isopropanol	100	100	73-131	0	20				
Methanol	84	92	52-159	9	20				
Batch number: 111380001A	Sample number(s): 6285040 UNSPK: P290329								
Diethylene glycol	90	100	83-130	11	20				
Ethylene glycol	73*	78*	89-125	6	20				
Propylene glycol	71*	71*	91-128	0	20				
Batch number: 111320022A	Sample number(s): 6285036-6285037 UNSPK: P281100								
m-Terphenyl	77	78	75-125	2	20				
o-Terphenyl	89	90	75-125	1	20				
p-Terphenyl	85	85	75-125	1	20				
Batch number: 111391026001A	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Antimony	46*	63*	75-125	25*	20	0.170 J	0.157 J	8 (1)	20
Arsenic	165*	213*	75-125	12	20	4.09	4.62	12	20
Beryllium	126*	142*	75-125	8	20	0.580	0.524	10	20
Cadmium	126*	130*	75-125	2	20	0.231	0.186	22* (1)	20
Chromium	127*	146*	75-125	6	20	18.8	17.0	11	20
Cobalt	117	146*	75-125	20	20	6.77	7.41	9	20
Copper	125	150*	75-125	10	20	11.5	9.84	16	20
Lead	238 (2)	330 (2)	75-125	13	20	13.0	10.4	22*	20
Nickel	130*	170*	75-125	14	20	12.9	11.4	13	20
Silver	123	131*	75-125	7	20	0.0345 J	0.0583 J	52* (1)	20
Thallium	104	129*	75-125	13	20	0.275	0.222	21* (1)	20
Vanadium	157*	209*	75-125	10	20	33.7	30.6	10	20
Zinc	150 (2)	268 (2)	75-125	15	20	58.3	51.6	12	20
Batch number: 111391026001B	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Selenium	109	119	75-125	9	20	0.148 J	0.109 J	30* (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111391026001C	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Molybdenum	114	125	75-125	9	20	0.523	0.547	4	20
Batch number: 111391026001D	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Barium	220 (2)	382 (2)	75-125	11	20	110	98.0	12	20
Batch number: 111395708002	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Aluminum	2046 (2)	1418 (2)	75-125	7	20	14,500	13,200	10	20
Boron	98	97	84-115	2	20	12.2	11.0	11 (1)	20
Calcium	349 (2)	46 (2)	75-125	27*	20	3,630	3,830	5	20
Iron	1062 (2)	257 (2)	75-125	4	20	20,000	18,600	7	20
Lithium	103	101	82-114	1	20	17.4	15.5	12	20
Magnesium	338 (2)	199 (2)	75-125	6	20	4,110	3,820	7	20
Manganese	169 (2)	121 (2)	75-125	8	20	234	250	7	20
Phosphorus	591*	156*	75-125	68*	20	255	256	0	20
Potassium	128*	134*	75-125	2	20	2,130	2,290	7	20
Sodium	106	100	75-125	5	20	77.7 J	80.4 J	3 (1)	20
Strontium	98	96	75-115	2	20	25.4	22.8	11	20
Tin	90	88	80-110	2	20	2.59 J	2.38 J	8 (1)	20
Titanium	243 (2)	324 (2)	75-125	7	20	907	914	1	20
Zirconium	98	97	75-125	0	20	0.977 J	1.84 J	61* (1)	20
Batch number: 111395711001	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
Mercury	83	74	65-135	13	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 11139243202A	Sample number(s): 6285036-6285039 UNSPK: P281100 BKG: P281100								
3a Cr VI by EPA 7199	94		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11139495201A	Sample number(s): 6285036-6285039 UNSPK: 6285036 BKG: 6285036								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11140102201A	Sample number(s): 6285036-6285037 UNSPK: P281100 BKG: P281100								
17a Cyanide by 9012B	101		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11140621201A	Sample number(s): 6285036-6285039 UNSPK: P282746 BKG: P282746								
11a Anions by 300.0 - Fluoride	85		80-120			4.0 U	4.0 U	0 (1)	20
Batch number: 11144621202B	Sample number(s): 6285036-6285037 UNSPK: P291999 BKG: P291999								
11a Anions by 300.0 - Nitrate	107		80-120			1.9	2.0	8 (1)	20
Batch number: 11139039401A	Sample number(s): 6285036-6285039 BKG: P282749								
18a pH by 9045C						6.84	6.96	2	3
Batch number: 11139182101A	Sample number(s): 6285036-6285039 BKG: P282749								
32a OR Potential						381	379	0	6
Batch number: 11139162401A	Sample number(s): 6285038-6285039 BKG: P287596								
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6285036-6285037 BKG: P281100								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						16.8	15.8	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6285036	99	102	109	87
6285037	100	103	107	88
6285038	100	103	106	91
Blank	97	96	107	90
LCS	97	99	110	100
LCSD	97	99	109	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111371AA

	Toluene-d8
6285041	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111381AA

	Toluene-d8
6285036	98
6285037	98
6285038	98
Blank	99
LCS	99
LCSD	99
MS	99
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111372AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Surrogate Quality Control

6285041	100	100	101	98
Blank	99	101	101	99
LCS	102	99	102	101
LCSD	103	100	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11134SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6285036	95	93	105
6285037	100	90	99
6285038	101	92	101
6285039	93	86	99
Blank	93	92	100
LCS	107	92	98
MS	106	87	93
MSD	98	81	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11136SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6285036	69	71	58	64	74	69
6285037	82	82	74	73	80	79
6285038	75	76	70	72	82	77
6285039	77	79	70	76	85	80
Blank	78	83	95	80	87	89
LCS	70	73	79	71	77	70
MS	80	83	92	76	87	82
MSD	80	81	89	76	82	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11137SLE026

	N-Nitrosodimethylamine-d6
6285036	140
6285037	131
Blank	118
LCS	122
MS	132
MSD	128
Limits:	50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11137WAF026

	N-Nitrosodimethylamine-d6
6285040	241*

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Surrogate Quality Control

Blank	147
LCS	147
LCSD	130
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11132A34B

	Trifluorotoluene-F
6285036	81
6285037	72
Blank	86
LCS	86
MS	77
MSD	72
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11136A20A

	Trifluorotoluene-F
6285040	77
6285041	77
Blank	76
LCS	106
LCSD	109
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111330013A

	Butyraldehyde
6285040	100
Blank	98
LCS	97
LCSD	90
Limits:	45-145

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111360003A

	Butyraldehyde
6285036	91
6285037	71
Blank	102
LCS	99
MS	99
MSD	99
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111370002A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Surrogate Quality Control

	2-Nitro-m-xylene
6285036	123
6285037	108
Blank	106
LCS	112
LCSD	111
MS	98
MSD	99
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111370008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6285036	103	57
6285037	116	57
6285038	120	63
6285039	119	63
Blank	109	90
LCS	112	85
LCSD	115	100
MS	70	36*
MSD	77	37*
Limits:	53-139	45-120

Analysis Name: 16b Energetics by 8330A
Batch number: 111370022A

	2-Nitro-m-xylene
6285040	83
Blank	90
LCS	85
LCSD	80
Limits:	50-134

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111320022A

	n-Triacontane-d62
6285036	86
6285037	97
Blank	77
LCS	77
MS	69
MSD	68
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111330017A

	Acetone
6285036	86

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Surrogate Quality Control

6285037	84
Blank	101
LCS	99
MS	80
MSD	78
Limits:	42-138

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111340014A

	n-Triacontane-d62
6285040	73
Blank	75
LCS	74
LCSD	74
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111360001A

	Tetramethylene glycol
6285036	74
6285037	83
Blank	88
LCS	100
MS	87
MSD	87
Limits:	29-137

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111360027A

	Chlorobenzene	Orthoterphenyl
6285040	83	83
Blank	83	83
LCS	79	83
LCSD	77	81
Limits:	28-152	52-131

Analysis Name: 19b Alcohols by 8015B
Batch number: 111360031A

	Acetone
6285040	99
Blank	100
LCS	102
MS	100
MSD	98
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111370025A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246609
Reported: 06/10/11 at 01:58 PM

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6285036	57	71
6285037	46	63
Blank	62	77
LCS	66	82
MS	64	74
MSD	64	76
Limits:	37-125	47-145

Analysis Name: 21b Glycols by 8015B
Batch number: 111380001A

	Tetramethylene glycol
6285040	98
Blank	99
LCS	105
MS	109
MSD	107
Limits:	77-119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1246609 Sample#6285036-41

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: T Knapp

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-120-SA8N-SB-4.5	05.11.11	0841	SOIL	NONE	5-Encores										X	X	X										
SL-120-SA8N-SB-4.0-5.0	05.11.11	0847	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-120-SA8N-SB-9.5	05.11.11	0844	SOIL	NONE	5-Encores										X	X	X										
SL-120-SA8N-SB-9.0-10.0	05.11.11	0849	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-136-SA8N-SB-4.5	05.11.11	0955	SOIL	NONE	4-Encores										X	X											
SL-136-SA8N-SB-4.0-5.0	05.11.11	0959	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-136-SA8N-SB-9.0-10.0	05.11.11	1010	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	5-1L Amber Glass													X			X	X		X			
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	1-250mL Glass															X							
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NaOH	1-500mL Glass																		X				
EB10-SA8N-SB-051111	05.11.11	1230	WATER	HCL	5-40mL Vials												X									X	
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	4-40mL Vials														X						X		
TB-051111	05.11.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	5/11/2011 1700	Mary Hart 5/12/11 930	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7711,7722	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/12/2011
Group Number: 1246610
SDG: DX080
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-120-SA8N-SB-4.0-5.0 Soil	6285042
SL-120-SA8N-SB-9.0-10.0 Soil	6285043
SL-136-SA8N-SB-4.0-5.0 Soil	6285044
SL-136-SA8N-SB-9.0-10.0 Soil	6285045

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285042
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8008 SDG#: DX080-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285042
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8008 SDG#: DX080-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0357	JBQ	0.0189	1.07	1
11031	12378-PeCDD	40321-76-4	0.216	JBQ	0.0352	5.33	1
11031	123478-HxCDD	39227-28-6	0.254	JB	0.0602	5.33	1
11031	123678-HxCDD	57653-85-7	1.24	JB	0.0610	5.33	1
11031	123789-HxCDD	19408-74-3	0.763	JB	0.0561	5.33	1
11031	1234678-HpCDD	35822-46-9	33.0	B	0.101	5.33	1
11031	OCDD	3268-87-9	503	B	0.0871	10.7	1
11031	2378-TCDF	51207-31-9	0.0584	J	0.0372	1.07	1
11031	12378-PeCDF	57117-41-6	0.315	JB	0.0271	5.33	1
11031	23478-PeCDF	57117-31-4	0.0270	U	0.0270	5.33	1
11031	123478-HxCDF	70648-26-9	0.607	JBQ	0.0545	5.33	1
11031	123678-HxCDF	57117-44-9	0.489	JBQ	0.0490	5.33	1
11031	123789-HxCDF	72918-21-9	0.398	JB	0.0393	5.33	1
11031	234678-HxCDF	60851-34-5	0.337	JB	0.0333	5.33	1
11031	1234678-HpCDF	67562-39-4	4.68	JB	0.0436	5.33	1
11031	1234789-HpCDF	55673-89-7	0.368	JB	0.0438	5.33	1
11031	OCDF	39001-02-0	9.27	JB	0.0524	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285042
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8008 SDG#: DX080-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-4.0-5.0

LLI Sample # SW 6285042
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:47

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8008 SDG#: DX080-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 07:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285043
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8009 SDG#: DX080-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285043
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8009 SDG#: DX080-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182	U	0.0182	1.15	1
11031	12378-PeCDD	40321-76-4	0.0778	JB	0.0302	5.76	1
11031	123478-HxCDD	39227-28-6	0.111	JBQ	0.0370	5.76	1
11031	123678-HxCDD	57653-85-7	0.452	JBQ	0.0378	5.76	1
11031	123789-HxCDD	19408-74-3	0.519	JB	0.0365	5.76	1
11031	1234678-HpCDD	35822-46-9	6.10	B	0.0486	5.76	1
11031	OCDD	3268-87-9	56.1	B	0.0429	11.5	1
11031	2378-TCDF	51207-31-9	0.0500	U	0.0500	1.15	1
11031	12378-PeCDF	57117-41-6	0.212	JB	0.0283	5.76	1
11031	23478-PeCDF	57117-31-4	0.338	JB	0.0266	5.76	1
11031	123478-HxCDF	70648-26-9	0.642	JB	0.0380	5.76	1
11031	123678-HxCDF	57117-44-9	0.172	JBQ	0.0336	5.76	1
11031	123789-HxCDF	72918-21-9	0.460	JBQ	0.0282	5.76	1
11031	234678-HxCDF	60851-34-5	0.151	JBQ	0.0256	5.76	1
11031	1234678-HpCDF	67562-39-4	0.933	JB	0.0256	5.76	1
11031	1234789-HpCDF	55673-89-7	0.146	JB	0.0291	5.76	1
11031	OCDF	39001-02-0	1.82	JB	0.0416	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285043
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8009 SDG#: DX080-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA8N-SB-9.0-10.0

LLI Sample # SW 6285043
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 08:49

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8009 SDG#: DX080-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 08:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285044
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8010 SDG#: DX080-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285044
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8010 SDG#: DX080-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0310 JBQ	0.0175	1.02	1
11031	12378-PeCDD	40321-76-4	0.0249 U	0.0249	5.11	1
11031	123478-HxCDD	39227-28-6	0.0421 JBQ	0.0201	5.11	1
11031	123678-HxCDD	57653-85-7	0.0876 JB	0.0209	5.11	1
11031	123789-HxCDD	19408-74-3	0.0683 JBQ	0.0207	5.11	1
11031	1234678-HpCDD	35822-46-9	0.835 JB	0.0378	5.11	1
11031	OCDD	3268-87-9	8.02 JB	0.0308	10.2	1
11031	2378-TCDF	51207-31-9	0.0279 U	0.0279	1.02	1
11031	12378-PeCDF	57117-41-6	0.0395 JBQ	0.0157	5.11	1
11031	23478-PeCDF	57117-31-4	0.125 JBQ	0.0158	5.11	1
11031	123478-HxCDF	70648-26-9	0.111 JBQ	0.0210	5.11	1
11031	123678-HxCDF	57117-44-9	0.0765 JB	0.0175	5.11	1
11031	123789-HxCDF	72918-21-9	0.108 JBQ	0.0193	5.11	1
11031	234678-HxCDF	60851-34-5	0.0500 JBQ	0.0160	5.11	1
11031	1234678-HpCDF	67562-39-4	0.184 JB	0.0142	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0719 JB	0.0205	5.11	1
11031	OCDF	39001-02-0	0.535 JBQ	0.0409	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-136-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285044
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8010 SDG#: DX080-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-136-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-4.0-5.0

LLI Sample # SW 6285044
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 09:59

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8010 SDG#: DX080-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 09:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285045
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8011 SDG#: DX080-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285045
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X8011 SDG#: DX080-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0157 U	0.0157	1.01	1
11031	12378-PeCDD	40321-76-4	0.0375 JBQ	0.0241	5.07	1
11031	123478-HxCDD	39227-28-6	0.0177 U	0.0177	5.07	1
11031	123678-HxCDD	57653-85-7	0.0458 JBQ	0.0175	5.07	1
11031	123789-HxCDD	19408-74-3	0.0381 JBQ	0.0165	5.07	1
11031	1234678-HpCDD	35822-46-9	0.324 JBQ	0.0291	5.07	1
11031	OCDD	3268-87-9	1.33 JB	0.0307	10.1	1
11031	2378-TCDF	51207-31-9	0.0156 U	0.0156	1.01	1
11031	12378-PeCDF	57117-41-6	0.0244 JBQ	0.0120	5.07	1
11031	23478-PeCDF	57117-31-4	0.0613 JBQ	0.0121	5.07	1
11031	123478-HxCDF	70648-26-9	0.0396 JB	0.0149	5.07	1
11031	123678-HxCDF	57117-44-9	0.0366 JB	0.0129	5.07	1
11031	123789-HxCDF	72918-21-9	0.0810 JBQ	0.0152	5.07	1
11031	234678-HxCDF	60851-34-5	0.0403 JB	0.0132	5.07	1
11031	1234678-HpCDF	67562-39-4	0.108 JBQ	0.00825	5.07	1
11031	1234789-HpCDF	55673-89-7	0.0637 JBQ	0.0128	5.07	1
11031	OCDF	39001-02-0	0.177 JB	0.0421	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285045
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8011 SDG#: DX080-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA8N-SB-9.0-10.0

LLI Sample # SW 6285045
LLI Group # 1246610
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/11/2011 10:10

Submitted: 05/12/2011 09:30
Reported: 05/31/2011 13:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8011 SDG#: DX080-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 09:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246610
Reported: 05/31/11 at 01:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11139162401A	Sample number(s): 6285044-6285045								
Moisture Content by 160.3					100		80-120		
Batch number: 11147162401A	Sample number(s): 6285042-6285043								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11139001	Sample number(s): 6285042-6285045								
2378-TCDD	0.0310 J	0.0196	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0269 J	0.0233	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0286 J	0.0171	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0490 J	0.0172	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0386 J	0.0168	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.202 J	0.0236	5.00	ng/kg	93		70-140		
OCDD	0.415 J	0.0207	10.0	ng/kg	92		78-144		
2378-TCDF	0.0236 U	0.0236	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0550 J	0.0134	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0728 J	0.0122	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0533 J	0.0127	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0378 J	0.0113	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0750 J	0.0146	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0637 J	0.0127	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.129 J	0.00880	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0930 J	0.0141	5.00	ng/kg	91		78-138		
OCDF	0.257 J	0.0265	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139162401A	Sample number(s): 6285044-6285045					BKG: P287596			
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6285042-6285043					BKG: P281100			
Moisture Content by 160.3						16.8	15.8	6	20
Batch number: 11139001	Sample number(s): 6285042-6285045					UNSPK: P281123			
2378-TCDD	96	96	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246610
Reported: 05/31/11 at 01:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	94	96	70-142	0	25				
123478-HxCDD	92	94	70-164	1	25				
123678-HxCDD	92	91	76-134	2	25				
123789-HxCDD	92	93	64-162	1	25				
1234678-HpCDD	91	93	70-140	1	25				
OCDD	90	93	78-144	2	25				
2378-TCDF	97	97	75-158	1	25				
12378-PeCDF	90	91	80-134	0	25				
23478-PeCDF	90	91	68-160	0	25				
123478-HxCDF	92	94	72-134	1	25				
123678-HxCDF	90	90	84-130	2	25				
123789-HxCDF	91	92	78-130	0	25				
234678-HxCDF	94	95	70-156	0	25				
1234678-HpCDF	88	88	82-122	1	25				
1234789-HpCDF	91	92	78-138	0	25				
OCDF	93	92	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11139001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6285042	81	80	53	58	85	86
6285043	80	81	56	62	82	86
6285044	78	77	57	67	76	71
6285045	77	73	66	74	75	77
Blank	77	86	78	86	80	80
MS	70	70	67	79	77	69
MSD	81	82	83	100	87	76
OPR	67	75	65	74	70	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6285042	62	78	73	90	80	81
6285043	69	78	74	91	80	79
6285044	77	68	64	89	81	81
6285045	81	64	58	88	76	76
Blank	103	86	93	105	91	87
MS	89	70	65	84	73	82
MSD	105	75	70	100	86	92
OPR	94	73	79	95	80	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246610
Reported: 05/31/11 at 01:10 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6285042	80	85	83	79	85	82
6285043	81	82	82	80	83	83
6285044	81	82	81	77	75	84
6285045	77	81	76	72	75	80
Blank	88	89	98	110	72	88
MS	80	82	82	81	67	77
MSD	94	92	90	85	79	89
OPR	78	79	86	97	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1246610 Sample#6285042-45

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: TKnapp

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 16138	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	@pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-120-SA8N-SB-4.5	05.11.11	0841	SOIL	NONE	5-Encores										X	X	X										
SL-120-SA8N-SB-4.0-5.0	05.11.11	0847	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-120-SA8N-SB-9.5	05.11.11	0844	SOIL	NONE	5-Encores										X	X	X										
SL-120-SA8N-SB-9.0-10.0	05.11.11	0849	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-136-SA8N-SB-4.5	05.11.11	0955	SOIL	NONE	4-Encores										X	X											
SL-136-SA8N-SB-4.0-5.0	05.11.11	0959	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-136-SA8N-SB-9.0-10.0	05.11.11	1010	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	5-1L Amber Glass													X			X	X		X			
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	1-250mL Glass															X							
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NaOH	1-500mL Glass																		X				
EB10-SA8N-SB-051111	05.11.11	1230	WATER	HCL	5-40mL Vials												X									X	
EB10-SA8N-SB-051111	05.11.11	1230	WATER	NONE	4-40mL Vials														X						X		
TB-051111	05.11.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (Signature) — Date/Time: 5/11/2011 1700 — Received for Laboratory by: (Signature) Tracy Hall 5/12/11 930

Received by: (Signature) — Date/Time — Airbill No.(s): 8695 1441 7711,7722

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/13/2011
Group Number: 1246798
SDG: DE149
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-097-SA8N-SB-4.0-5.0 Soil	6286415
SL-098-SA8N-SB-4.0-5.0 Soil	6286416
SL-098-SA8N-SB-9.0-10.0 Soil	6286417
SL-099-SA8N-SB-4.0-5.0 Soil	6286418
SL-101-SA8N-SB-4.0-5.0 Soil	6286419
SL-101-SA8N-SB-7.0-8.0 Soil	6286420
SL-103-SA8N-SB-3.0-4.0 Soil	6286421
TB-051211 Water	6286422

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2	U	7.2	8.6		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.92
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.92
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.92
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.92
06192	Methylene Chloride	75-09-2	6.5		0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.44
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		5.72	22.7		1
07914	Boron	7440-42-8	6.59		1.01	5.69		1
01650	Calcium	7440-70-2	10,300		6.97	22.7		1
01654	Iron	7439-89-6	23,600		5.36	22.7		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,960		2.89	11.4		1
06958	Manganese	7439-96-5	321		0.0887	0.569		1
10145	Phosphorus	7723-14-0	244		0.637	11.4		1
01662	Potassium	7440-09-7	3,140		20.5	56.9		1
01667	Sodium	7440-23-5	320		42.4	114		1
07968	Strontium	7440-24-6	30.3		0.0705	0.569		1
06969	Tin	7440-31-5	3.19	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,280		0.432	1.14		1
10146	Zirconium	7440-67-7	5.55	J	0.955	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	7.06	0.0892	0.446		2
06126	Barium	7440-39-3	101	0.120	0.446		2
06127	Beryllium	7440-41-7	0.808	0.0178	0.112		2
06128	Cadmium	7440-43-9	0.146	0.0446	0.112		2
06131	Chromium	7440-47-3	25.4	0.134	0.446		2
06132	Cobalt	7440-48-4	9.16	0.0223	0.112		2
06133	Copper	7440-50-8	12.3	0.0736	0.446		2
06135	Lead	7439-92-1	7.65	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.422	0.0558	0.112		2
06139	Nickel	7440-02-0	16.0	0.112	0.446		2
06141	Selenium	7782-49-2	0.0666 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0246 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.365	0.0335	0.112		2
06148	Vanadium	7440-62-2	50.3	0.0245	0.112		2
06149	Zinc	7440-66-6	62.9	0.625	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.5	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	388	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-097-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 09:52	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 12:09	Jason M Long	21.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:25	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 18:58	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 19:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 02:38	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:09	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286415
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-1 SDG#: DE149-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 13:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 01:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11144243201A	05/25/2011 13:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.88
06192	Methylene Chloride	75-09-2	5.1		0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.33
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	8.4	J	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.8	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1

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Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		5.85	23.3		1
07914	Boron	7440-42-8	9.80		1.04	5.82		1
01650	Calcium	7440-70-2	13,200		7.13	23.3		1
01654	Iron	7439-89-6	33,200		11.0	46.5		2
01656	Lithium	7439-93-2	28.1		0.26	2.3		1
01657	Magnesium	7439-95-4	6,920		2.96	11.6		1
06958	Manganese	7439-96-5	540		0.0907	0.582		1
10145	Phosphorus	7723-14-0	234		0.652	11.6		1
01662	Potassium	7440-09-7	3,420		20.9	58.2		1
01667	Sodium	7440-23-5	521		43.4	116		1
07968	Strontium	7440-24-6	44.4		0.0721	0.582		1
06969	Tin	7440-31-5	3.11	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,260		0.442	1.16		1
10146	Zirconium	7440-67-7	6.97		0.977	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.272		0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	8.30	0.0913	0.456		2
06126	Barium	7440-39-3	135	0.123	0.456		2
06127	Beryllium	7440-41-7	0.984	0.0183	0.114		2
06128	Cadmium	7440-43-9	0.165	0.0456	0.114		2
06131	Chromium	7440-47-3	35.9	0.137	0.456		2
06132	Cobalt	7440-48-4	12.0	0.0228	0.114		2
06133	Copper	7440-50-8	18.8	0.0753	0.456		2
06135	Lead	7439-92-1	11.9	0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.629	0.0570	0.114		2
06139	Nickel	7440-02-0	23.3	0.114	0.456		2
06141	Selenium	7782-49-2	0.0905 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0538 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.354	0.0342	0.114		2
06148	Vanadium	7440-62-2	67.1	0.0251	0.114		2
06149	Zinc	7440-66-6	75.4	0.639	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.0	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	390	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-098-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 10:15	Holly Berry	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 12:29	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:27	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/19/2011 19:22	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 20:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 02:56	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 23:35	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286416
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-2 SDG#: DE149-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 14:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 01:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 13:13	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286417
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-3 SDG#: DE149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286417
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-3 SDG#: DE149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286417
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-3 SDG#: DE149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.65	22.5		1
07914	Boron	7440-42-8	3.34	J	1.00	5.62		1
01650	Calcium	7440-70-2	1,530		6.89	22.5		1
01654	Iron	7439-89-6	16,500		5.29	22.5		1
01656	Lithium	7439-93-2	15.2		0.25	2.2		1
01657	Magnesium	7439-95-4	3,020		2.85	11.2		1
06958	Manganese	7439-96-5	130		0.0876	0.562		1
10145	Phosphorus	7723-14-0	160		0.629	11.2		1
01662	Potassium	7440-09-7	2,130		20.2	56.2		1
01667	Sodium	7440-23-5	97.6	J	41.9	112		1
07968	Strontium	7440-24-6	18.0		0.0696	0.562		1
06969	Tin	7440-31-5	2.85	J	1.12	11.2		1
06970	Titanium	7440-32-6	986		0.427	1.12		1
10146	Zirconium	7440-67-7	2.79	J	0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0909	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0907	0.454		2
06126	Barium	7440-39-3	97.1		0.122	0.454		2
06127	Beryllium	7440-41-7	0.739		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0454	U	0.0454	0.113		2
06131	Chromium	7440-47-3	16.3		0.136	0.454		2
06132	Cobalt	7440-48-4	3.94		0.0227	0.113		2
06133	Copper	7440-50-8	7.34		0.0749	0.454		2
06135	Lead	7439-92-1	7.01		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.596		0.0567	0.113		2
06139	Nickel	7440-02-0	8.52		0.113	0.454		2
06141	Selenium	7782-49-2	0.139	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0306	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.358		0.0340	0.113		2
06148	Vanadium	7440-62-2	36.6		0.0250	0.113		2
06149	Zinc	7440-66-6	52.1		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.93	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286417
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-3 SDG#: DE149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	388		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/22/2011 23:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 20:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 03:15	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286417
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-3 SDG#: DE149-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:16	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 14:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 01:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 13:25	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.6		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	4.6		0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	91.3		19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	J	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.82
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1

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Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.97	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.3	J	0.45	1.4		1

The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. The method blank associated with the re-extraction is outside the limits for the C30-C40 range (0.76 ppm J). Since the hold time had expired prior to the re-extraction, the original trial is reported

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,600		5.54	22.0		1
07914	Boron	7440-42-8	4.50	J	0.980	5.51		1
01650	Calcium	7440-70-2	2,090		6.75	22.0		1
01654	Iron	7439-89-6	20,700		5.19	22.0		1
01656	Lithium	7439-93-2	20.1		0.24	2.2		1
01657	Magnesium	7439-95-4	3,660		2.80	11.0		1
06958	Manganese	7439-96-5	169		0.0859	0.551		1
10145	Phosphorus	7723-14-0	201		0.617	11.0		1
01662	Potassium	7440-09-7	1,790		19.8	55.1		1
01667	Sodium	7440-23-5	221		41.1	110		1
07968	Strontium	7440-24-6	23.2		0.0683	0.551		1
06969	Tin	7440-31-5	3.01	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,070		0.419	1.10		1
10146	Zirconium	7440-67-7	3.95	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.0890	0.445		2
06126	Barium	7440-39-3	117		0.120	0.445		2
06127	Beryllium	7440-41-7	0.938		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0445	U	0.0445	0.111		2
06131	Chromium	7440-47-3	22.8		0.133	0.445		2
06132	Cobalt	7440-48-4	5.20		0.0222	0.111		2
06133	Copper	7440-50-8	7.44		0.0734	0.445		2
06135	Lead	7439-92-1	8.10		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.722		0.0556	0.111		2
06139	Nickel	7440-02-0	12.2		0.111	0.445		2
06141	Selenium	7782-49-2	0.153	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0401	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.313		0.0334	0.111		2
06148	Vanadium	7440-62-2	49.7		0.0245	0.111		2
06149	Zinc	7440-66-6	47.1		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	400	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-099-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 10:37	Holly Berry	0.83

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Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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149-4 SDG#: DE149-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 12:49	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:30	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 17:07	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/22/2011 23:34	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 21:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 13:02	Carrie E Miller	21.82
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:29	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 13:35	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 02:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 03:33	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 14:29	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 21:15	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 19:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111340010A	05/18/2011 10:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111340010A	05/16/2011 10:30	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1

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SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
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149-4 SDG#: DE149-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 14:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 01:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 02:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11144243201A	05/25/2011 13:42	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286418
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-4 SDG#: DE149-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.87
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.2		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.2		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.2		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.2		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.2		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.87
06192	Methylene Chloride	75-09-2	5.6		0.25	4.2		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.87

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.2		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.49
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.3	J	19.6	39.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.94	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	1.3	J	0.47	1.4		1
	The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. The method blank associated with the re-extraction is outside the limits for the C30-C40 range (0.76 ppm J). Similar results were observed for both sample trials; therefore, the original trial is reported							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.86	23.3		1
07914	Boron	7440-42-8	5.27	J	1.04	5.82		1
01650	Calcium	7440-70-2	2,420		7.14	23.3		1
01654	Iron	7439-89-6	22,500		5.48	23.3		1
01656	Lithium	7439-93-2	18.8		0.26	2.3		1
01657	Magnesium	7439-95-4	3,720		2.96	11.6		1
06958	Manganese	7439-96-5	241		0.0908	0.582		1
10145	Phosphorus	7723-14-0	247		0.652	11.6		1
01662	Potassium	7440-09-7	2,530		21.0	58.2		1
01667	Sodium	7440-23-5	86.3	J	43.4	116		1
07968	Strontium	7440-24-6	21.5		0.0722	0.582		1
06969	Tin	7440-31-5	3.06	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,170		0.442	1.16		1
10146	Zirconium	7440-67-7	4.38	J	0.978	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.257		0.0699	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.45		0.0931	0.466		2
06126	Barium	7440-39-3	128		0.126	0.466		2
06127	Beryllium	7440-41-7	0.871		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.117		0.0466	0.116		2
06131	Chromium	7440-47-3	22.3		0.140	0.466		2
06132	Cobalt	7440-48-4	7.68		0.0233	0.116		2
06133	Copper	7440-50-8	13.4		0.0768	0.466		2
06135	Lead	7439-92-1	9.51		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.849		0.0582	0.116		2
06139	Nickel	7440-02-0	13.3		0.116	0.466		2
06141	Selenium	7782-49-2	0.118	J	0.0466	0.466		2
06142	Silver	7440-22-4	0.0352	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.300		0.0349	0.116		2
06148	Vanadium	7440-62-2	45.9		0.0256	0.116		2
06149	Zinc	7440-66-6	58.5		0.652	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	417		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-101-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 11:00	Holly Berry	0.87

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 13:09	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:33	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 17:24	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/22/2011 23:59	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 21:50	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 13:38	Carrie E Miller	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 14:17	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 02:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 03:52	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 14:54	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 21:30	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 19:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111340010A	05/18/2011 12:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111340010A	05/16/2011 10:30	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1

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Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 15:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 02:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 02:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 13:48	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:52	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-101-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286419
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-5 SDG#: DE149-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	19		0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

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Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	26.1	J	19.6	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1

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Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.99	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	1.3	J	0.47	1.4		1
	The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. The method blank associated with the re-extraction is outside the limits for the C30-C40 range (0.76 ppm J). Similar results were observed for both sample trials; therefore, the original trial is reported							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		5.87	23.3		1
07914	Boron	7440-42-8	3.05	J	1.04	5.83		1
01650	Calcium	7440-70-2	1,670		7.15	23.3		1
01654	Iron	7439-89-6	18,100		5.49	23.3		1
01656	Lithium	7439-93-2	15.7		0.26	2.3		1
01657	Magnesium	7439-95-4	2,990		2.96	11.7		1
06958	Manganese	7439-96-5	137		0.0910	0.583		1
10145	Phosphorus	7723-14-0	125		0.653	11.7		1
01662	Potassium	7440-09-7	1,590		21.0	58.3		1
01667	Sodium	7440-23-5	85.5	J	43.5	117		1
07968	Strontium	7440-24-6	18.6		0.0723	0.583		1
06969	Tin	7440-31-5	3.34	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,070		0.443	1.17		1
10146	Zirconium	7440-67-7	3.23	J	0.980	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.00		0.0915	0.457		2
06126	Barium	7440-39-3	53.3		0.124	0.457		2
06127	Beryllium	7440-41-7	0.548		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.0457	U	0.0457	0.114		2
06131	Chromium	7440-47-3	12.5		0.137	0.457		2
06132	Cobalt	7440-48-4	3.30		0.0229	0.114		2
06133	Copper	7440-50-8	4.96		0.0755	0.457		2
06135	Lead	7439-92-1	5.09		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.507		0.0572	0.114		2
06139	Nickel	7440-02-0	5.61		0.114	0.457		2
06141	Selenium	7782-49-2	0.0605	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0167	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.208		0.0343	0.114		2
06148	Vanadium	7440-62-2	29.6		0.0252	0.114		2
06149	Zinc	7440-66-6	37.9		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	511		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.83		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-101-SA8N-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 11:22	Holly Berry	0.85

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 13:29	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:36	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 17:41	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/23/2011 00:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 22:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 14:15	Carrie E Miller	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 15:00	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 02:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 04:10	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 15:19	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 22:15	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 19:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111340010A	05/18/2011 13:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111340010A	05/16/2011 10:30	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 15:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 02:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201A	05/21/2011 02:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 13:59	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201A	05/20/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA8N-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286420
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-6 SDG#: DE149-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.8
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.8
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.8
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.8
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.8
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.8
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.8
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.8
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.8
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.8
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.8
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.8
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.8
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.8
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.8
06192	Methylene Chloride	75-09-2	4.3		0.23	3.8		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.8

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Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.8
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.8
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.8
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.8
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.01
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	46.0		19.7	39.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 4-bromophenyl-phenylether							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

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Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	J	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
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Project Name: SSFL Area IV Collocated Soil Sampling

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149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.87	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	1.4		0.47	1.4		1
	The method blank and LCS associated with this sample are outside the QC limits for the C8-C11 range. The sample was re-extracted past the method hold time. The method blank associated with the re-extraction is outside the limits for the C30-C40 range (0.76 ppm J). Similar results were observed for both sample trials; therefore, the original trial is reported							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

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149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,100		5.92	23.5		1
07914	Boron	7440-42-8	6.39		1.05	5.89		1
01650	Calcium	7440-70-2	1,080		7.22	23.5		1
01654	Iron	7439-89-6	31,700		5.55	23.5		1
01656	Lithium	7439-93-2	30.2		0.26	2.4		1
01657	Magnesium	7439-95-4	4,860		2.99	11.8		1
06958	Manganese	7439-96-5	233		0.0918	0.589		1
10145	Phosphorus	7723-14-0	629		0.659	11.8		1
01662	Potassium	7440-09-7	3,730		21.2	58.9		1
01667	Sodium	7440-23-5	90.2	J	43.9	118		1
07968	Strontium	7440-24-6	10.3		0.0730	0.589		1
06969	Tin	7440-31-5	3.61	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,400		0.447	1.18		1
10146	Zirconium	7440-67-7	4.29	J	0.989	5.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.42		0.0942	0.471		2
06126	Barium	7440-39-3	83.0		0.127	0.471		2
06127	Beryllium	7440-41-7	0.782		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.0471	U	0.0471	0.118		2
06131	Chromium	7440-47-3	18.6		0.141	0.471		2
06132	Cobalt	7440-48-4	4.86		0.0235	0.118		2
06133	Copper	7440-50-8	6.05		0.0777	0.471		2
06135	Lead	7439-92-1	7.23		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.887		0.0589	0.118		2
06139	Nickel	7440-02-0	10.0		0.118	0.471		2
06141	Selenium	7782-49-2	0.493		0.0471	0.471		2
06142	Silver	7440-22-4	0.0141	U	0.0141	0.118		2
06145	Thallium	7440-28-0	0.261		0.0353	0.118		2
06148	Vanadium	7440-62-2	41.5		0.0259	0.118		2
06149	Zinc	7440-66-6	65.2		0.659	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	U	0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	461		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	5.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 11:44	Holly Berry	0.8

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 13:49	Jason M Long	22.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:39	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113324407	05/13/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113324407	05/13/2011 13:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11137SLE026	05/18/2011 17:58	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11136SLC026	05/23/2011 00:48	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11134SLA026	05/19/2011 22:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11137SLE026	05/18/2011 03:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11134SLA026	05/16/2011 10:35	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11136SLC026	05/17/2011 08:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11132A34B	05/16/2011 14:51	Carrie E Miller	20.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113324407	05/13/2011 13:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111370002A	05/23/2011 15:42	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111360003A	05/20/2011 02:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111370008A	05/21/2011 04:29	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111370008A	05/17/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111360003A	05/16/2011 19:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111370002A	05/17/2011 15:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111370025A	05/25/2011 15:44	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111330017A	05/13/2011 22:30	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111360001A	05/16/2011 20:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111340010A	05/18/2011 14:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111370025A	05/18/2011 09:25	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111340010A	05/16/2011 10:30	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111330017A	05/13/2011 16:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111360001A	05/16/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 23:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11140621201B	05/22/2011 15:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11144621202B	05/26/2011 02:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 03:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 14:11	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11140621201B	05/20/2011 10:00	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-103-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286421
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-7 SDG#: DE149-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051211 Water
SSFL Area IV Collocated Soil Sampling
TB-051211

LLI Sample # WW 6286422
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:00

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-8 SDG#: DE149-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051211 Water
SSFL Area IV Collocated Soil Sampling
TB-051211

LLI Sample # WW 6286422
LLI Group # 1246798
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:00

Submitted: 05/13/2011 09:20
Reported: 06/10/2011 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

149-8 SDG#: DE149-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111351AA	05/15/2011 12:49	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 12:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111351AA	05/15/2011 12:49	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111371AA	05/17/2011 12:52	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11138A20A	05/18/2011 23:11	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11138A20A	05/18/2011 23:11	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111371AA	Sample number(s): 6286415-6286416,6286418-6286421									
Acetone	6.7	U	6.7	8.0	ug/kg	109	106	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	111	112	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107	108	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	93	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	89	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	89	90	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	121*	121*	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	125*	125*	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	109	109	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	105	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	108	107	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	89	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	105	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	103	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	112	112	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	108	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	63	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	96	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	101	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108	107	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	109	109	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108	109	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	90	89	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	111	114	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	97	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	105	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111	113	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	107	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	110	109	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	100	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	94	97	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	108	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	107	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	86	86	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	111	113	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	93	94	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111	110	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	119	120	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	92	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	97	98	61-134	1	30
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	104	95	76-124	9	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	123*	120	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	101	100	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	110	110	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99	103	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98	97	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	103	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	103	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98	94	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	103	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	114	115	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	117	117	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	99	97	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109	108	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	104	80-120	0	30
Batch number: E111371AA	Sample number(s): 6286422									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	109	80-123	1	30
Batch number: E111381AA	Sample number(s): 6286415-6286416,6286418-6286421									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	106	70-130	2	30
Batch number: L111351AA	Sample number(s): 6286422									
Acetone	6	U	6.	20	ug/l	170	176	49-234	4	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	115	118	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	94	95	80-120	0	30
Bromoform	1	U	1.	5	ug/l	83	82	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	110	113	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	97	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	93	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	94	94	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	97	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	92	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	102	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	93	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	99	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	96	106	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	94	94	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	65	63	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	91	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	90	80-120	3	30
1,2-Dibromoethane	1	U	1.	5	ug/l	92	96	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	93	93	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	84	86	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	98	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	103	102	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	1	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	96	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	92	95	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	99	100	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	96	96	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	95	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	92	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	95	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	95	98	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	98	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	87	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	93	95	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	97	98	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	89	89	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	97	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	89	90	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	93	95	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	91	91	80-120	0	30
Styrene	1	U	1.	5	ug/l	91	91	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	96	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	91	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	91	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	84	86	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	99	98	75-127	0	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	89	94	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	96	96	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	108	108	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	90	92	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	97	101	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
Batch number: 11134SLA026	Sample number(s): 6286415-6286421									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	102		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	116		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	102		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	126		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		
Batch number: 11136SLC026	Sample number(s): 6286415-6286421									
Aniline	170 U		170.	500	ug/kg	63		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	70		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	76		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	78*		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	79		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	78		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	75		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	76		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	81		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	79		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	86		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	75*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	75		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	87		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	79		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	84		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	65		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	86		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	85		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	82		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	87		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	77		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	67		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	73		68-105		
Isophorone	17	U	17.	170	ug/kg	74		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	79		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	83		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	82		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	78		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	81		81-114		
4-Nitrophenol	170		170.	500	ug/kg	80		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	72		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	89		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	67		51-117		
Phenol	17	U	17.	170	ug/kg	74		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	79		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 11137SLE026	Sample number(s): 6286418-6286421									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	79		70-130		
Batch number: 11132A34B	Sample number(s): 6286418-6286421									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11138A20A	Sample number(s): 6286422									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111370002A	Sample number(s): 6286418-6286421									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	106	98	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	116		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	93		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	113		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	107		80-120		
PETN	800	U	800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	92		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
Batch number: 111360003A	Sample number(s): 6286418-6286421									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111370008A	Sample number(s): 6286415-6286421									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	92	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	115		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111370025A	Sample number(s): 6286418-6286421									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	79		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	96		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		67-127		
EFH (C8-C11)	1.3		0.40	1.2	mg/kg	198*		54-107		
Batch number: 111330017A	Sample number(s): 6286418-6286421									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111360001A	Sample number(s): 6286418-6286421									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Batch number: 111340010A	Sample number(s): 6286418-6286421									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
Batch number: 111361026001A	Sample number(s): 6286415-6286421									
Antimony	0.0600	U	0.0600	0.200	mg/kg	155		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	108		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	107		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	111		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111361026001B	Sample number(s): 6286415-6286421									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		83-111		
Batch number: 111361026001C	Sample number(s): 6286415-6286421									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 111361026001D	Sample number(s): 6286415-6286421									
Barium	0.108	U	0.108	0.400	mg/kg	107		81-111		
Batch number: 111365708001	Sample number(s): 6286415-6286421									
Aluminum	5.03	U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	9.14	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.61	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	92		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111365711001	Sample number(s): 6286415-6286421									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	100		88-123		
Batch number: 11139495201A	Sample number(s): 6286415-6286420									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11139495201B	Sample number(s): 6286421									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11140621201B	Sample number(s): 6286415-6286421									
11a Anions by 300.0 - Fluoride	4.0	U	4.0	5.0	mg/kg	95		90-110		
Batch number: 11144102201A	Sample number(s): 6286418-6286421									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11144243201A	Sample number(s): 6286415-6286421									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11144621202B	Sample number(s): 6286418-6286421									
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11139039401B	Sample number(s): 6286415-6286421									
18a pH by 9045C						100		95-105		
Batch number: 11139182101B	Sample number(s): 6286415-6286421									
32a OR Potential						99		98-102		
Batch number: 11139162401A	Sample number(s): 6286415-6286417									
Moisture Content by 160.3						100		80-120		
Batch number: 11147162401A	Sample number(s): 6286418									
Moisture Content by 160.3						100		80-120		
Batch number: 11147162401B	Sample number(s): 6286419-6286421									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111381AA	Sample number(s): 6286415-6286416,6286418-6286421 UNSPK: P288929								

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dioxane	90	89	70-130	1	30				
Batch number: 11134SLA026	Sample number(s): 6286415-6286421 UNSPK: P282747								
Acenaphthene	89	92	63-105	4	30				
Acenaphthylene	91	90	67-114	2	30				
Anthracene	94	92	60-122	3	30				
Benzo(a)anthracene	97	95	59-128	1	30				
Benzo(a)pyrene	99	98	45-138	1	30				
Benzo(b)fluoranthene	102	105	43-155	3	30				
Benzo(g,h,i)perylene	91	88	33-141	3	30				
Benzo(k)fluoranthene	96	95	42-144	0	30				
Butylbenzylphthalate	109	108	57-173	1	30				
Di-n-butylphthalate	115	109	65-148	5	30				
Chrysene	94	93	48-134	1	30				
Dibenz(a,h)anthracene	97	95	22-133	1	30				
Diethylphthalate	98	98	70-136	0	30				
Dimethylphthalate	95	94	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	98	89	39-167	8	30				
Fluoranthene	99	97	26-166	2	30				
Fluorene	94	92	66-122	1	30				
Indeno(1,2,3-cd)pyrene	96	95	21-143	1	30				
1-Methylnaphthalene	93	91	72-123	2	30				
2-Methylnaphthalene	84	83	64-103	1	30				
Naphthalene	93	99	61-102	6	30				
N-Nitrosodimethylamine	88	85	48-113	3	30				
Di-n-octylphthalate	113	111	40-192	1	30				
Phenanthrene	90	88	12-165	2	30				
Pyrene	92	91	15-153	1	30				
Batch number: 11136SLC026	Sample number(s): 6286415-6286421 UNSPK: P282746								
Aniline	67	69	35-95	2	30				
Benzidine	37	38	35-141	5	30				
Benzoic acid	61	69	10-173	12	30				
Benzyl alcohol	88	89	67-115	2	30				
4-Bromophenyl-phenylether	90	90	67-129	0	30				
Carbazole	101	100	64-120	1	30				
4-Chloro-3-methylphenol	88	90	76-110	3	30				
4-Chloroaniline	71	75	23-95	6	30				
bis(2-Chloroethoxy)methane	85	86	75-104	2	30				
bis(2-Chloroethyl)ether	81	80	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	80	55-142	1	30				
2-Chloronaphthalene	94	95	50-141	1	30				
2-Chlorophenol	91	90	73-121	1	30				
4-Chlorophenyl-phenylether	87	88	80-109	3	30				
Dibenzofuran	95	94	71-112	0	30				
1,2-Dichlorobenzene	76	73	66-108	4	30				
1,3-Dichlorobenzene	73	69	63-109	5	30				
1,4-Dichlorobenzene	73	71	70-100	2	30				
3,3'-Dichlorobenzidine	62	63	16-119	2	30				
2,4-Dichlorophenol	96	99	78-117	3	30				
2,4-Dimethylphenol	84	87	78-110	4	30				
3,5-Dimethylphenol	92	90	70-130	2	30				
4,6-Dinitro-2-methylphenol	78	83	24-116	7	30				

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Quality Control Summary

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Reported: 06/10/11 at 02:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	55	65	20-143	16	30				
2,4-Dinitrotoluene	97	98	73-113	1	30				
2,6-Dinitrotoluene	96	96	69-123	1	30				
1,2-Diphenylhydrazine	94	92	71-129	1	30				
bis(2-Ethylhexyl)phthalate	100	98	63-122	1	30				
Hexachlorobenzene	100	100	77-114	0	30				
Hexachlorobutadiene	76	75	62-120	1	30				
Hexachlorocyclopentadiene	66	64	10-153	2	30				
Hexachloroethane	69	67	57-109	2	30				
Isophorone	82	82	73-102	1	30				
2-Methylphenol	87	88	75-111	1	30				
4-Methylphenol	91	92	71-111	1	30				
2-Nitroaniline	94	93	67-125	0	30				
3-Nitroaniline	93	92	59-122	0	30				
4-Nitroaniline	75	75	52-112	0	30				
Nitrobenzene	82	84	72-106	3	30				
2-Nitrophenol	89	90	74-115	2	30				
4-Nitrophenol	89	88	54-113	0	30				
N-Nitroso-di-n-propylamine	80	80	60-116	1	30				
N-Nitrosodiphenylamine	100	99	86-145	0	30				
Pentachlorophenol	73	75	28-127	3	30				
Phenol	83	84	58-126	3	30				
1,2,4-Trichlorobenzene	80	79	72-115	1	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	95	96	77-115	1	30				
Batch number: 11137SLE026	Sample number(s): 6286418-6286421 UNSPK: P267471								
N-Nitrosodimethylamine	68*	70	70-130	3	30				
Batch number: 11132A34B	Sample number(s): 6286418-6286421 UNSPK: P281100								
9a TPH by EPA 8015B Gas C5-C12	123*	111	39-118	20	30				
Batch number: 111370002A	Sample number(s): 6286418-6286421 UNSPK: P281100								
4-Amino-2,6-Dinitrotoluene	94	77*	80-127	27	50				
2-Amino-4,6-Dinitrotoluene	93	76*	80-137	27	50				
1,3-Dinitrobenzene	101	83	38-166	27	50				
2,4-Dinitrotoluene	92	76*	80-131	26	50				
2,6-Dinitrotoluene	94	77*	80-127	27	50				
HMX	73	59*	63-128	29	50				
Nitrobenzene	98	82	80-125	26	50				
Nitroglycerin	87	71*	80-120	27	50				
2-Nitrotoluene	94	79*	80-122	25	50				
3-Nitrotoluene	97	82	72-119	25	50				
4-Nitrotoluene	92	78*	80-125	25	50				
PETN	103	82	80-121	30	50				
RDX	81	62*	75-129	34	50				
Tetryl	68	58	55-174	23	50				
1,3,5-Trinitrobenzene	82	68*	82-126	26	50				
2,4,6-Trinitrotoluene	94	78*	82-130	27	50				
Batch number: 111360003A	Sample number(s): 6286418-6286421 UNSPK: P281100								
25a Formaldehyde 8315A	96	99	80-120	2	50				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111370008A	Sample number(s): 6286415-6286421 UNSPK: P285036								
PCB-1016	68	68	29-146	1	50				
PCB-1260	51	56	39-149	9	50				
Batch number: 111370025A	Sample number(s): 6286418-6286421 UNSPK: P285036								
EFH (C12-C14)	76	81	49-123	6	20				
EFH (C15-C20)	110	106	49-123	3	20				
EFH (C21-C30)	492 (2)	249 (2)	49-123	30*	20				
EFH (C30 - C40)	1306 (2)	-595 (2)	49-123	63*	20				
EFH (C8-C11)	59	36*	49-123	12	20				
Batch number: 111330017A	Sample number(s): 6286418-6286421 UNSPK: 6286419								
Ethanol	71	68	48-130	4	20				
Isopropanol	75	73	12-149	2	20				
Methanol	74	72	43-138	2	20				
Batch number: 111360001A	Sample number(s): 6286418-6286421 UNSPK: P285036								
Diethylene glycol	43*	56*	59-109	27*	20				
Ethylene glycol	58*	75	63-107	26*	20				
Propylene glycol	63	80	63-107	24*	20				
Batch number: 111340010A	Sample number(s): 6286418-6286421 UNSPK: 6286418								
m-Terphenyl	74*	69*	75-125	7	20				
o-Terphenyl	85	80	75-125	6	20				
p-Terphenyl	85	80	75-125	6	20				
Batch number: 111361026001A	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Antimony	80	76	75-125	3	20	0.401	0.231	54* (1)	20
Arsenic	151*	102	75-125	12	20	5.44	4.96	9	20
Beryllium	116	95	75-125	10	20	0.859	0.700	20	20
Cadmium	124	123	75-125	1	20	0.306	0.329	7 (1)	20
Chromium	142*	91	75-125	12	20	30.1	25.2	18	20
Cobalt	124	117	75-125	5	20	10.1	9.33	8	20
Copper	132*	120	75-125	4	20	17.9	15.9	12	20
Lead	134*	114	75-125	5	20	8.97	7.69	15	20
Nickel	143*	122	75-125	6	20	19.3	17.1	12	20
Silver	125	118	75-125	5	20	0.0346 J	0.0260 J	28* (1)	20
Thallium	132*	111	75-125	9	20	0.384	0.315	20 (1)	20
Vanadium	193 (2)	107 (2)	75-125	12	20	55.3	47.6	15	20
Zinc	136 (2)	38 (2)	75-125	12	20	67.5	56.9	17	20
Batch number: 111361026001B	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Selenium	110	109	75-125	1	20	0.231 J	0.194 J	18 (1)	20
Batch number: 111361026001C	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Molybdenum	121	115	75-125	5	20	0.912	0.619	38*	20
Batch number: 111361026001D	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Barium	234 (2)	105 (2)	75-125	8	20	131	116	12	20
Batch number: 111365708001	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Aluminum	2991	4057	75-125	7	20	23,800	23,100	3	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	93	94	84-115	0	20	6.41	6.43	0 (1)	20
Calcium	137 (2)	205 (2)	75-125	5	20	4,420	4,540	3	20
Iron	2410 (2)	4209 (2)	75-125	6	20	25,600	25,900	1	20
Lithium	100	102	82-114	1	20	18.8	18.6	1	20
Magnesium	266 (2)	448 (2)	75-125	6	20	5,120	5,170	1	20
Manganese	77 (2)	42 (2)	75-125	4	20	420	447	6	20
Phosphorus	97	91	75-125	3	20	178	180	1	20
Potassium	152 (2)	166 (2)	75-125	2	20	4,470	4,580	2	20
Sodium	96	98	75-125	1	20	128	129	1 (1)	20
Strontium	98	101	75-115	2	20	30.5	30.4	0	20
Tin	87	87	80-110	1	20	2.76 J	2.62 J	5 (1)	20
Titanium	322 (2)	348 (2)	75-125	1	20	1,220	1,160	5	20
Zirconium	91	93	75-125	1	20	5.67	5.76	2 (1)	20
Batch number: 111365711001	Sample number(s): 6286415-6286421 UNSPK: P282746 BKG: P282746								
Mercury	87	89	65-135	1	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 11139495201A	Sample number(s): 6286415-6286420 UNSPK: P285036 BKG: P285036								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11139495201B	Sample number(s): 6286421 UNSPK: 6286421 BKG: 6286421								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11140621201B	Sample number(s): 6286415-6286421 UNSPK: 6286415 BKG: 6286415								
11a Anions by 300.0 - Fluoride	71*		80-120			8.2	5.8	33* (1)	20
Batch number: 11144102201A	Sample number(s): 6286418-6286421 UNSPK: 6286418 BKG: 6286418								
17a Cyanide by 9012B	98		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11144243201A	Sample number(s): 6286415-6286421 UNSPK: P290807 BKG: P290807								
3a Cr VI by EPA 7199	88		75-125			0.20 U	0.86 J	200* (1)	20
Batch number: 11144621202B	Sample number(s): 6286418-6286421 UNSPK: P291999 BKG: P291999								
11a Anions by 300.0 - Nitrate	107		80-120			1.9	2.0	8 (1)	20
Batch number: 11139039401B	Sample number(s): 6286415-6286421 BKG: 6286417								
18a pH by 9045C						6.94	7.08	2	3
Batch number: 11139182101B	Sample number(s): 6286415-6286421 BKG: 6286417								
32a OR Potential						388	400	3	6
Batch number: 11139162401A	Sample number(s): 6286415-6286417 BKG: P287596								
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6286418 BKG: P281100								
Moisture Content by 160.3						16.8	15.8	6	20
Batch number: 11147162401B	Sample number(s): 6286419-6286421 BKG: P292004								
Moisture Content by 160.3						11.1	12.2	10	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6286415	100	103	106	88
6286416	99	102	108	85
6286418	100	101	106	89
6286419	100	100	108	88
6286420	101	105	106	91
6286421	99	99	106	88
Blank	97	96	107	90
LCS	97	99	110	100
LCSD	97	99	109	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111371AA

	Toluene-d8
6286422	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111381AA

	Toluene-d8
6286415	98
6286416	98
6286418	98
6286419	98
6286420	99
6286421	98
Blank	99
LCS	99
LCSD	99
MS	99
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6286422	105	102	99	97
Blank	104	104	99	97
LCS	105	104	100	102
LCSD	103	104	100	102

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Surrogate Quality Control

Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11134SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6286415	86	79	97
6286416	94	86	100
6286417	96	88	97
6286418	96	88	99
6286419	95	88	98
6286420	101	92	101
6286421	102	93	99
Blank	93	92	100
LCS	107	92	98
MS	106	87	93
MSD	98	81	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11136SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6286415	77	76	68	70	76	81
6286416	75	75	70	67	73	77
6286417	74	79	80	76	84	83
6286418	74	76	77	71	75	81
6286419	74	74	72	69	74	85
6286420	73	77	79	72	80	83
6286421	77	81	82	74	83	85
Blank	78	83	95	80	87	89
LCS	70	73	79	71	77	70
MS	80	83	92	76	87	82
MSD	80	81	89	76	82	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11137SLE026

	N-Nitrosodimethylamine-d6
6286418	136
6286419	148
6286420	142
6286421	160*
Blank	118
LCS	122
MS	132
MSD	128
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11132A34B

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Surrogate Quality Control

	Trifluorotoluene-F
6286418	74
6286419	79
6286420	74
6286421	78
Blank	86
LCS	86
MS	77
MSD	72
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11138A20A

	Trifluorotoluene-F
6286422	72
Blank	72
LCS	111
LCSD	115
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111360003A

	Butyraldehyde
6286418	84
6286419	89
6286420	76
6286421	83
Blank	102
LCS	99
MS	99
MSD	99
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111370002A

	2-Nitro-m-xylene
6286418	112
6286419	108
6286420	110
6286421	112
Blank	106
LCS	112
LCSD	111
MS	98
MSD	99
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111370008A

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6286415	116	64
6286416	120	72
6286417	116	70
6286418	119	72
6286419	104	66
6286420	103	66
6286421	109	70
Blank	109	90
LCS	112	85
LCSD	115	100
MS	70	36*
MSD	77	37*
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111330017A

	Acetone
6286418	80
6286419	76
6286420	77
6286421	79
Blank	101
LCS	99
MS	80
MSD	78
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111340010A

	n-Triacontane-d62
6286418	73
6286419	77
6286420	82
6286421	79
Blank	81
LCS	80
MS	76
MSD	75
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111360001A

	Tetramethylene glycol
6286418	80
6286419	80
6286420	82
6286421	74
Blank	88
LCS	100

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246798
Reported: 06/10/11 at 02:10 PM

Surrogate Quality Control

MS	87
MSD	87
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111370025A

	Chlorobenzene	Orthoterphenyl
6286418	52	73
6286419	50	69
6286420	57	74
6286421	60	75
Blank	62	77
LCS	66	82
MS	64	74
MSD	64	76
Limits:	37-125	47-145

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1246798 Sample#6286415-22

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-097-SA8N-SB-4.5	05.12.11	1525	SOIL	NONE	4-Encores										X	X											
SL-097-SA8N-SB-4.0-5.0	05.12.11	1530	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-098-SA8N-SB-4.5	05.12.11	1410	SOIL	NONE	4-Encores										X	X											
SL-098-SA8N-SB-4.0-5.0	05.12.11	1415	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-098-SA8N-SB-9.0-10.0	05.12.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-099-SA8N-SB-4.5	05.12.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-099-SA8N-SB-4.0-5.0	05.12.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-101-SA8N-SB-4.5	05.12.11	0830	SOIL	NONE	5-Encores										X	X	X										
SL-101-SA8N-SB-4.0-5.0	05.12.11	0840	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-101-SA8N-SB-7.5	05.12.11	0835	SOIL	NONE	5-Encores										X	X	X										
SL-101-SA8N-SB-7.0-8.0	05.12.11	0845	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-103-SA8N-SB-3.5	05.12.11	0950	SOIL	NONE	5-Encores										X	X	X										
SL-103-SA8N-SB-3.0-4.0	05.12.11	0955	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-051211	05.12.11	0800	WATER	NONE	4-40 mL vials										X	X	X										

Relinquished by: (*Signature*) — Date/Time: 5/12/2011 1700 — Received for Laboratory by: (*Signature*) Barry Yuhl 5/13/11 920

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8695 1441 7744,7733

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/13/2011
Group Number: 1246800
SDG: DX080
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-097-SA8N-SB-4.0-5.0 Soil	6286430
SL-098-SA8N-SB-4.0-5.0 Soil	6286431
SL-098-SA8N-SB-9.0-10.0 Soil	6286432
SL-099-SA8N-SB-4.0-5.0 Soil	6286433
SL-101-SA8N-SB-4.0-5.0 Soil	6286434
SL-101-SA8N-SB-7.0-8.0 Soil	6286435
SL-103-SA8N-SB-3.0-4.0 Soil	6286436

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286430
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8012 SDG#: DX080-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286430
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8012 SDG#: DX080-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0209 U	0.0209	1.13	1
11031	12378-PeCDD	40321-76-4	0.117 JBQ	0.0299	5.63	1
11031	123478-HxCDD	39227-28-6	0.0745 JB	0.0220	5.63	1
11031	123678-HxCDD	57653-85-7	0.0985 JBQ	0.0222	5.63	1
11031	123789-HxCDD	19408-74-3	0.0820 JB	0.0218	5.63	1
11031	1234678-HpCDD	35822-46-9	0.269 JB	0.0368	5.63	1
11031	OCDD	3268-87-9	0.676 JB	0.0316	11.3	1
11031	2378-TCDF	51207-31-9	0.0245 U	0.0245	1.13	1
11031	12378-PeCDF	57117-41-6	0.117 JB	0.0152	5.63	1
11031	23478-PeCDF	57117-31-4	0.123 JBQ	0.0159	5.63	1
11031	123478-HxCDF	70648-26-9	0.0926 JB	0.0205	5.63	1
11031	123678-HxCDF	57117-44-9	0.0790 JBQ	0.0166	5.63	1
11031	123789-HxCDF	72918-21-9	0.139 JBQ	0.0222	5.63	1
11031	234678-HxCDF	60851-34-5	0.0921 JB	0.0174	5.63	1
11031	1234678-HpCDF	67562-39-4	0.150 JB	0.0117	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0937 JBQ	0.0200	5.63	1
11031	OCDF	39001-02-0	0.232 JBQ	0.0559	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286430
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8012 SDG#: DX080-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SB-4.0-5.0

LLI Sample # SW 6286430
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 15:30

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8012 SDG#: DX080-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 10:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286431
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8013 SDG#: DX080-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286431
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8013 SDG#: DX080-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0676 JBQ	0.0189	1.16	1
11031	12378-PeCDD	40321-76-4	0.296 JB	0.0286	5.82	1
11031	123478-HxCDD	39227-28-6	0.136 JBQ	0.0256	5.82	1
11031	123678-HxCDD	57653-85-7	0.180 JB	0.0257	5.82	1
11031	123789-HxCDD	19408-74-3	0.149 JBQ	0.0248	5.82	1
11031	1234678-HpCDD	35822-46-9	0.323 JBQ	0.0349	5.82	1
11031	OCDD	3268-87-9	0.970 JB	0.0337	11.6	1
11031	2378-TCDF	51207-31-9	0.0597 JQ	0.0192	1.16	1
11031	12378-PeCDF	57117-41-6	0.325 JBQ	0.0147	5.82	1
11031	23478-PeCDF	57117-31-4	0.259 JB	0.0145	5.82	1
11031	123478-HxCDF	70648-26-9	0.171 JBQ	0.0257	5.82	1
11031	123678-HxCDF	57117-44-9	0.186 JBQ	0.0209	5.82	1
11031	123789-HxCDF	72918-21-9	0.177 JBQ	0.0228	5.82	1
11031	234678-HxCDF	60851-34-5	0.146 JB	0.0180	5.82	1
11031	1234678-HpCDF	67562-39-4	0.189 JB	0.0122	5.82	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0176	5.82	1
11031	OCDF	39001-02-0	0.158 JBQ	0.0539	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286431
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8013 SDG#: DX080-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-098-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-4.0-5.0

LLI Sample # SW 6286431
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:15

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8013 SDG#: DX080-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 11:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286432
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8014 SDG#: DX080-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286432
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8014 SDG#: DX080-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0966 JBQ	0.0230	1.13	1
11031	12378-PeCDD	40321-76-4	0.249 JBQ	0.0305	5.67	1
11031	123478-HxCDD	39227-28-6	0.116 JBQ	0.0270	5.67	1
11031	123678-HxCDD	57653-85-7	0.169 JBQ	0.0278	5.67	1
11031	123789-HxCDD	19408-74-3	0.195 JB	0.0257	5.67	1
11031	1234678-HpCDD	35822-46-9	0.206 JBQ	0.0383	5.67	1
11031	OCDD	3268-87-9	0.543 JB	0.0353	11.3	1
11031	2378-TCDF	51207-31-9	0.0561 JQ	0.0200	1.13	1
11031	12378-PeCDF	57117-41-6	0.282 JB	0.0154	5.67	1
11031	23478-PeCDF	57117-31-4	0.219 JBQ	0.0162	5.67	1
11031	123478-HxCDF	70648-26-9	0.165 JBQ	0.0261	5.67	1
11031	123678-HxCDF	57117-44-9	0.162 JBQ	0.0214	5.67	1
11031	123789-HxCDF	72918-21-9	0.178 JB	0.0263	5.67	1
11031	234678-HxCDF	60851-34-5	0.142 JBQ	0.0196	5.67	1
11031	1234678-HpCDF	67562-39-4	0.163 JB	0.0127	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0899 JBQ	0.0221	5.67	1
11031	OCDF	39001-02-0	0.288 JBQ	0.0600	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286432
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8014 SDG#: DX080-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA8N-SB-9.0-10.0

LLI Sample # SW 6286432
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 14:20

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8014 SDG#: DX080-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 12:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286433
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8015 SDG#: DX080-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286433
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8015 SDG#: DX080-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0268 JBQ	0.0203	1.13	1
11031	12378-PeCDD	40321-76-4	0.0831 JB	0.0263	5.67	1
11031	123478-HxCDD	39227-28-6	0.0739 JBQ	0.0218	5.67	1
11031	123678-HxCDD	57653-85-7	0.0744 JBQ	0.0228	5.67	1
11031	123789-HxCDD	19408-74-3	0.129 JBQ	0.0202	5.67	1
11031	1234678-HpCDD	35822-46-9	0.249 JB	0.0334	5.67	1
11031	OCDD	3268-87-9	0.735 JB	0.0300	11.3	1
11031	2378-TCDF	51207-31-9	0.0243 JQ	0.0178	1.13	1
11031	12378-PeCDF	57117-41-6	0.125 JBQ	0.0134	5.67	1
11031	23478-PeCDF	57117-31-4	0.109 JBQ	0.0133	5.67	1
11031	123478-HxCDF	70648-26-9	0.113 JBQ	0.0205	5.67	1
11031	123678-HxCDF	57117-44-9	0.0865 JB	0.0173	5.67	1
11031	123789-HxCDF	72918-21-9	0.132 JBQ	0.0181	5.67	1
11031	234678-HxCDF	60851-34-5	0.0746 JBQ	0.0159	5.67	1
11031	1234678-HpCDF	67562-39-4	0.126 JBQ	0.0103	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0761 JB	0.0153	5.67	1
11031	OCDF	39001-02-0	0.201 JBQ	0.0475	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286433
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8015 SDG#: DX080-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA8N-SB-4.0-5.0

LLI Sample # SW 6286433
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 11:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8015 SDG#: DX080-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 13:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401A	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286434
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8016 SDG#: DX080-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286434
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8016 SDG#: DX080-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0195 U	0.0195	1.15	1
11031	12378-PeCDD	40321-76-4	0.0770 JBQ	0.0271	5.73	1
11031	123478-HxCDD	39227-28-6	0.0334 JBQ	0.0332	5.73	1
11031	123678-HxCDD	57653-85-7	0.186 JBQ	0.0331	5.73	1
11031	123789-HxCDD	19408-74-3	0.265 JB	0.0308	5.73	1
11031	1234678-HpCDD	35822-46-9	0.557 JB	0.0399	5.73	1
11031	OCDD	3268-87-9	2.01 JB	0.0311	11.5	1
11031	2378-TCDF	51207-31-9	0.0248 JQ	0.0209	1.15	1
11031	12378-PeCDF	57117-41-6	0.0819 JBQ	0.0171	5.73	1
11031	23478-PeCDF	57117-31-4	0.114 JB	0.0175	5.73	1
11031	123478-HxCDF	70648-26-9	0.221 JB	0.0317	5.73	1
11031	123678-HxCDF	57117-44-9	0.0709 JBQ	0.0261	5.73	1
11031	123789-HxCDF	72918-21-9	0.327 JB	0.0313	5.73	1
11031	234678-HxCDF	60851-34-5	0.0965 JBQ	0.0246	5.73	1
11031	1234678-HpCDF	67562-39-4	0.909 JB	0.0179	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0737 JBQ	0.0284	5.73	1
11031	OCDF	39001-02-0	0.723 JB	0.0602	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-101-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286434
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8016 SDG#: DX080-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-101-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-4.0-5.0

LLI Sample # SW 6286434
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:40

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8016 SDG#: DX080-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 14:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286435
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8017 SDG#: DX080-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286435
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8017 SDG#: DX080-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0236 JBQ	0.0191	1.18	1
11031	12378-PeCDD	40321-76-4	0.0438 JB	0.0256	5.89	1
11031	123478-HxCDD	39227-28-6	0.0350 JB	0.0188	5.89	1
11031	123678-HxCDD	57653-85-7	0.0568 JBQ	0.0194	5.89	1
11031	123789-HxCDD	19408-74-3	0.0528 JBQ	0.0188	5.89	1
11031	1234678-HpCDD	35822-46-9	0.363 JBQ	0.0330	5.89	1
11031	OCDD	3268-87-9	1.56 JB	0.0286	11.8	1
11031	2378-TCDF	51207-31-9	0.0176 U	0.0176	1.18	1
11031	12378-PeCDF	57117-41-6	0.0317 JBQ	0.0132	5.89	1
11031	23478-PeCDF	57117-31-4	0.0719 JBQ	0.0138	5.89	1
11031	123478-HxCDF	70648-26-9	0.0951 JB	0.0191	5.89	1
11031	123678-HxCDF	57117-44-9	0.0641 JBQ	0.0154	5.89	1
11031	123789-HxCDF	72918-21-9	0.114 JBQ	0.0177	5.89	1
11031	234678-HxCDF	60851-34-5	0.0760 JBQ	0.0150	5.89	1
11031	1234678-HpCDF	67562-39-4	0.160 JB	0.0102	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0722 JBQ	0.0183	5.89	1
11031	OCDF	39001-02-0	0.337 JB	0.0408	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA8N-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286435
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8017 SDG#: DX080-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA8N-SB-7.0-8.0

LLI Sample # SW 6286435
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 08:45

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8017 SDG#: DX080-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 18:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286436
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8018 SDG#: DX080-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286436
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8018 SDG#: DX080-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0258 JBQ	0.0183	1.15	1
11031	12378-PeCDD	40321-76-4	0.0293 U	0.0293	5.77	1
11031	123478-HxCDD	39227-28-6	0.0420 JB	0.0233	5.77	1
11031	123678-HxCDD	57653-85-7	0.0761 JBQ	0.0237	5.77	1
11031	123789-HxCDD	19408-74-3	0.127 JB	0.0224	5.77	1
11031	1234678-HpCDD	35822-46-9	0.263 JB	0.0358	5.77	1
11031	OCDD	3268-87-9	1.07 JB	0.0421	11.5	1
11031	2378-TCDF	51207-31-9	0.0197 U	0.0197	1.15	1
11031	12378-PeCDF	57117-41-6	0.0537 JBQ	0.0159	5.77	1
11031	23478-PeCDF	57117-31-4	0.0561 JB	0.0156	5.77	1
11031	123478-HxCDF	70648-26-9	0.0251 JBQ	0.0181	5.77	1
11031	123678-HxCDF	57117-44-9	0.0453 JBQ	0.0141	5.77	1
11031	123789-HxCDF	72918-21-9	0.0191 U	0.0191	5.77	1
11031	234678-HxCDF	60851-34-5	0.0734 JBQ	0.0150	5.77	1
11031	1234678-HpCDF	67562-39-4	0.121 JB	0.0102	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0664 JBQ	0.0190	5.77	1
11031	OCDF	39001-02-0	0.211 JB	0.0522	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-103-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286436
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8018 SDG#: DX080-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA8N-SB-3.0-4.0

LLI Sample # SW 6286436
LLI Group # 1246800
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/12/2011 09:55

Submitted: 05/13/2011 09:20
Reported: 05/31/2011 13:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8018 SDG#: DX080-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11139001	05/21/2011 19:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11139001	05/19/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246800
Reported: 05/31/11 at 01:26 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11139162401A	Sample number(s): 6286430-6286432								
Moisture Content by 160.3					100		80-120		
Batch number: 11147162401A	Sample number(s): 6286433								
Moisture Content by 160.3					100		80-120		
Batch number: 11147162401B	Sample number(s): 6286434-6286436								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11139001	Sample number(s): 6286430-6286436								
2378-TCDD	0.0310 J	0.0196	1.00	ng/kg	92		67-158		
12378-PeCDD	0.0269 J	0.0233	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0286 J	0.0171	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0490 J	0.0172	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0386 J	0.0168	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.202 J	0.0236	5.00	ng/kg	93		70-140		
OCDD	0.415 J	0.0207	10.0	ng/kg	92		78-144		
2378-TCDF	0.0236 U	0.0236	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0550 J	0.0134	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0728 J	0.0122	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0533 J	0.0127	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0378 J	0.0113	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0750 J	0.0146	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0637 J	0.0127	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.129 J	0.00880	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0930 J	0.0141	5.00	ng/kg	91		78-138		
OCDF	0.257 J	0.0265	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139162401A	Sample number(s): 6286430-6286432					BKG: P287596			
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11147162401A	Sample number(s): 6286433					BKG: P281100			
Moisture Content by 160.3						16.8	15.8	6	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246800
Reported: 05/31/11 at 01:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147162401B	Sample number(s): 6286434-6286436					BKG: P292004			
Moisture Content by 160.3						11.1	12.2	10	20
Batch number: 11139001	Sample number(s): 6286430-6286436 UNSPK: P281123								
2378-TCDD	96	96	67-158	1	25				
12378-PeCDD	94	96	70-142	0	25				
123478-HxCDD	92	94	70-164	1	25				
123678-HxCDD	92	91	76-134	2	25				
123789-HxCDD	92	93	64-162	1	25				
1234678-HpCDD	91	93	70-140	1	25				
OCDD	90	93	78-144	2	25				
2378-TCDF	97	97	75-158	1	25				
12378-PeCDF	90	91	80-134	0	25				
23478-PeCDF	90	91	68-160	0	25				
123478-HxCDF	92	94	72-134	1	25				
123678-HxCDF	90	90	84-130	2	25				
123789-HxCDF	91	92	78-130	0	25				
234678-HxCDF	94	95	70-156	0	25				
1234678-HpCDF	88	88	82-122	1	25				
1234789-HpCDF	91	92	78-138	0	25				
OCDF	93	92	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11139001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6286430	71	69	60	71	70	64
6286431	74	75	54	65	76	74
6286432	68	64	55	64	67	61
6286433	83	81	66	75	86	86
6286434	76	72	59	69	74	70
6286435	73	72	62	73	74	75
6286436	74	70	60	71	72	66
Blank	77	86	78	86	80	80
MS	70	70	67	79	77	69
MSD	81	82	83	100	87	76
OPR	67	75	65	74	70	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6286430	79	60	55	84	73	75

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246800
Reported: 05/31/11 at 01:26 PM

Surrogate Quality Control

6286431	77	66	59	88	76	80
6286432	74	55	50	75	68	70
6286433	87	77	70	97	83	84
6286434	82	64	59	88	76	74
6286435	86	64	60	87	75	79
6286436	81	59	55	86	71	73
Blank	103	86	93	105	91	87
MS	89	70	65	84	73	82
MSD	105	75	70	100	86	92
OPR	94	73	79	95	80	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6286430	78	78	73	68	68	76
6286431	79	81	79	74	73	80
6286432	69	75	70	66	65	71
6286433	84	91	87	84	84	88
6286434	76	81	79	77	75	80
6286435	79	81	80	76	71	80
6286436	74	77	74	70	72	79
Blank	88	89	98	110	72	88
MS	80	82	82	81	67	77
MSD	94	92	90	85	79	89
OPR	78	79	86	97	61	77
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1246800 Sample# 6286430-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-097-SA8N-SB-4.5	05.12.11	1525	SOIL	NONE	4-Encores									X	X											
SL-097-SA8N-SB-4.0-5.0	05.12.11	1530	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-098-SA8N-SB-4.5	05.12.11	1410	SOIL	NONE	4-Encores									X	X											
SL-098-SA8N-SB-4.0-5.0	05.12.11	1415	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-098-SA8N-SB-9.0-10.0	05.12.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-099-SA8N-SB-4.5	05.12.11	1140	SOIL	NONE	5-Encores									X	X	X										
SL-099-SA8N-SB-4.0-5.0	05.12.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-101-SA8N-SB-4.5	05.12.11	0830	SOIL	NONE	5-Encores									X	X	X										
SL-101-SA8N-SB-4.0-5.0	05.12.11	0840	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-101-SA8N-SB-7.5	05.12.11	0835	SOIL	NONE	5-Encores									X	X	X										
SL-101-SA8N-SB-7.0-8.0	05.12.11	0845	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-103-SA8N-SB-3.5	05.12.11	0950	SOIL	NONE	5-Encores									X	X	X										
SL-103-SA8N-SB-3.0-4.0	05.12.11	0955	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
TB-051211	05.12.11	0800	WATER	NONE	4-40 mL vials									X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	5/12/2011 1700	5/13/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7744, 7733	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/14/2011
Group Number: 1246976
SDG: DE150
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA8N-SB-4.0-5.0 Soil	6287596
SL-094-SA8N-SB-7.5-8.5 Soil	6287597
SL-095-SA8N-SB-4.0-5.0 Soil	6287598
SL-096-SA8N-SB-4.0-5.0 Soil	6287599
SL-096-SA8N-SB-9.0-10.0 Soil	6287600
SL-104-SA8N-SB-4.0-5.0 Soil	6287601
SL-104-SA8N-SB-9.0-10.0 Soil	6287602
TB-051311 Water	6287603

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9	0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.5	0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5	0.93
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	0.93
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	0.93
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	0.93
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	0.93
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	0.93
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	0.93
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5	0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.5	0.93
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	0.93
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	0.93
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	0.93
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5	0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	0.93
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	0.93
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	0.93
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	0.93
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	0.93
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	0.93
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	0.93
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9	0.93
06192	Methylene Chloride	75-09-2	21		0.27	4.5	0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	0.93

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	0.93
06192	Toluene	108-88-3	0.09	U	0.09	4.5	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	0.93
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	0.93
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	0.93
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	21.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.80	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22	1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22	1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0	1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22	1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	7.2	22	1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0	1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0	1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22	1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0	1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0	1
	The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,100		5.79	23.0	1
07914	Boron	7440-42-8	9.45		1.02	5.75	1
01650	Calcium	7440-70-2	5,730		7.05	23.0	1
01654	Iron	7439-89-6	30,700		5.42	23.0	1
01656	Lithium	7439-93-2	22.9		0.25	2.3	1
01657	Magnesium	7439-95-4	6,330		2.92	11.5	1
06958	Manganese	7439-96-5	434		0.0897	0.575	1
10145	Phosphorus	7723-14-0	272		0.644	11.5	1
01662	Potassium	7440-09-7	5,620		20.7	57.5	1
01667	Sodium	7440-23-5	258		42.9	115	1
07968	Strontium	7440-24-6	38.7		0.0713	0.575	1
06969	Tin	7440-31-5	3.05	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,480		0.437	1.15	1
10146	Zirconium	7440-67-7	6.54		0.966	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.311		0.0711	0.237	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.22		0.0947	0.474	2
06126	Barium	7440-39-3	171		0.128	0.474	2
06127	Beryllium	7440-41-7	1.05		0.0189	0.118	2
06128	Cadmium	7440-43-9	0.419		0.0474	0.118	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	37.8	0.142	0.474	2
06132	Cobalt	7440-48-4	13.2	0.0237	0.118	2
06133	Copper	7440-50-8	22.1	0.0782	0.474	2
06135	Lead	7439-92-1	12.5	0.0123	0.237	2
06138	Molybdenum	7439-98-7	0.721	0.0592	0.118	2
06139	Nickel	7440-02-0	25.2	0.118	0.474	2
06141	Selenium	7782-49-2	0.248 J	0.0474	0.474	2
06142	Silver	7440-22-4	0.0479 J	0.0142	0.118	2
06145	Thallium	7440-28-0	0.470	0.0355	0.118	2
06148	Vanadium	7440-62-2	71.1	0.0261	0.118	2
06149	Zinc	7440-66-6	82.8	0.663	3.55	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.119	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.96	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8	35.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	413	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-094-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 12:06	Holly Berry	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 14:08	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113424418	05/14/2011 14:09	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/24/2011 22:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 08:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:41	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287596
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-1 SDG#: DE150-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 05:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 10:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 04:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 18:16	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287597
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-2 SDG#: DE150-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287597
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-2 SDG#: DE150-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	J	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1

The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287597
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-2 SDG#: DE150-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		5.70	22.7	1
07914	Boron	7440-42-8	5.78		1.01	5.66	1
01650	Calcium	7440-70-2	2,010		6.94	22.7	1
01654	Iron	7439-89-6	21,300		5.33	22.7	1
01656	Lithium	7439-93-2	24.8		0.25	2.3	1
01657	Magnesium	7439-95-4	3,950		2.88	11.3	1
06958	Manganese	7439-96-5	344		0.0883	0.566	1
10145	Phosphorus	7723-14-0	449		0.634	11.3	1
01662	Potassium	7440-09-7	2,880		20.4	56.6	1
01667	Sodium	7440-23-5	151		42.2	113	1
07968	Strontium	7440-24-6	22.2		0.0702	0.566	1
06969	Tin	7440-31-5	3.25	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,060		0.430	1.13	1
10146	Zirconium	7440-67-7	3.19	J	0.951	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0689	J	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.74		0.0888	0.444	2
06126	Barium	7440-39-3	106		0.120	0.444	2
06127	Beryllium	7440-41-7	0.873		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0740	J	0.0444	0.111	2
06131	Chromium	7440-47-3	17.3		0.133	0.444	2
06132	Cobalt	7440-48-4	7.43		0.0222	0.111	2
06133	Copper	7440-50-8	9.06		0.0733	0.444	2
06135	Lead	7439-92-1	7.24		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.960		0.0555	0.111	2
06139	Nickel	7440-02-0	12.8		0.111	0.444	2
06141	Selenium	7782-49-2	0.0988	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0560	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.318		0.0333	0.111	2
06148	Vanadium	7440-62-2	35.0		0.0244	0.111	2
06149	Zinc	7440-66-6	58.3		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287597
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-2 SDG#: DE150-02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	363	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.82	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 00:04	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 03:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 10:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287597
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-2 SDG#: DE150-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:45	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 11:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 05:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 18:23	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.0	U	8.0	9.6	1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.8	1.03
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8	1.03
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.8	1.03
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8	1.03
06192	Bromoform	75-25-2	0.48	U	0.48	4.8	1.03
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8	1.03
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6	1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8	1.03
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8	1.03
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8	1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8	1.03
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8	1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.8	1.03
06192	Chloromethane	74-87-3	0.40	U	0.40	4.8	1.03
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8	1.03
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8	1.03
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8	1.03
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8	1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8	1.03
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8	1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8	1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8	1.03
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8	1.03
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8	1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8	1.03
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8	1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8	1.03
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8	1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8	1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.8	1.03
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0	1.03
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8	1.03
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8	1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6	1.03
06192	Methylene Chloride	75-09-2	5.9		0.29	4.8	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8	1.03

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8	1.03
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8	1.03
06192	Toluene	108-88-3	0.1	U	0.1	4.8	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8	1.03
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8	1.03
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.8	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8	1.03
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8	1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8	1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17	24.41
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
	The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.94	J	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		5.70	22.7	1
07914	Boron	7440-42-8	7.55		1.01	5.66	1
01650	Calcium	7440-70-2	8,840		6.94	22.7	1
01654	Iron	7439-89-6	32,400		10.7	45.3	2
01656	Lithium	7439-93-2	25.7		0.25	2.3	1
01657	Magnesium	7439-95-4	6,710		2.88	11.3	1
06958	Manganese	7439-96-5	415		0.0884	0.566	1
10145	Phosphorus	7723-14-0	125		0.634	11.3	1
01662	Potassium	7440-09-7	2,590		20.4	56.6	1
01667	Sodium	7440-23-5	116		42.3	113	1
07968	Strontium	7440-24-6	45.7		0.0702	0.566	1
06969	Tin	7440-31-5	3.00	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,030		0.430	1.13	1
10146	Zirconium	7440-67-7	6.60		0.952	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.314		0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.55		0.0915	0.458	2
06126	Barium	7440-39-3	157		0.124	0.458	2
06127	Beryllium	7440-41-7	1.05		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.236		0.0458	0.114	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	32.9	0.137	0.458	2
06132	Cobalt	7440-48-4	15.2	0.0229	0.114	2
06133	Copper	7440-50-8	15.6	0.0755	0.458	2
06135	Lead	7439-92-1	12.0	0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.438	0.0572	0.114	2
06139	Nickel	7440-02-0	24.1	0.114	0.458	2
06141	Selenium	7782-49-2	0.0518 J	0.0458	0.458	2
06142	Silver	7440-22-4	0.0440 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.351	0.0343	0.114	2
06148	Vanadium	7440-62-2	58.8	0.0252	0.114	2
06149	Zinc	7440-66-6	61.9	0.641	3.43	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0135 J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4	0.93	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	380	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-095-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 12:29	Holly Berry	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 14:28	Jason M Long	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113424418	05/14/2011 14:12	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 00:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 03:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 10:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 23:45	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287598
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-3 SDG#: DE150-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 11:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 05:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 18:35	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182101B	05/19/2011 12:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039401B	05/19/2011 12:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.2	U	7.2	8.7	0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.3	0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3	0.91
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3	0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3	0.91
06192	Bromoform	75-25-2	0.43	U	0.43	4.3	0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3	0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7	0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3	0.91
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3	0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3	0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3	0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3	0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3	0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.3	0.91
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3	0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3	0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3	0.91
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3	0.91
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3	0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3	0.91
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3	0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3	0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3	0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3	0.91
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3	0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3	0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3	0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3	0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3	0.91
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3	0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.3	0.91
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4	0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3	0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7	0.91
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3	0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7	0.91
06192	Methylene Chloride	75-09-2	4.6		0.26	4.3	0.91
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3	0.91
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3	0.91
06192	Toluene	108-88-3	0.09	U	0.09	4.3	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3	0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3	0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3	0.91
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3	0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3	0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	21.4
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,600		5.86	23.3	1
07914	Boron	7440-42-8	8.72		1.04	5.82	1
01650	Calcium	7440-70-2	10,100		7.14	23.3	1
01654	Iron	7439-89-6	36,200		11.0	46.6	2
01656	Lithium	7439-93-2	28.1		0.26	2.3	1
01657	Magnesium	7439-95-4	7,510		2.96	11.6	1
06958	Manganese	7439-96-5	453		0.0908	0.582	1
10145	Phosphorus	7723-14-0	223		0.652	11.6	1
01662	Potassium	7440-09-7	4,290		21.0	58.2	1
01667	Sodium	7440-23-5	122		43.4	116	1
07968	Strontium	7440-24-6	47.0		0.0722	0.582	1
06969	Tin	7440-31-5	3.07	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,260		0.442	1.16	1
10146	Zirconium	7440-67-7	7.18		0.978	5.82	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.303		0.0706	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.05		0.0941	0.470	2
06126	Barium	7440-39-3	185		0.127	0.470	2
06127	Beryllium	7440-41-7	1.03		0.0188	0.118	2
06128	Cadmium	7440-43-9	0.313		0.0470	0.118	2
06131	Chromium	7440-47-3	37.3		0.141	0.470	2
06132	Cobalt	7440-48-4	13.5		0.0235	0.118	2
06133	Copper	7440-50-8	19.9		0.0776	0.470	2
06135	Lead	7439-92-1	11.7		0.0122	0.235	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.480	0.0588	0.118	2
06139	Nickel	7440-02-0	26.0	0.118	0.470	2
06141	Selenium	7782-49-2	0.157 J	0.0470	0.470	2
06142	Silver	7440-22-4	0.0746 J	0.0141	0.118	2
06145	Thallium	7440-28-0	0.406	0.0353	0.118	2
06148	Vanadium	7440-62-2	65.6	0.0259	0.118	2
06149	Zinc	7440-66-6	78.2	0.658	3.53	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.95	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.24	1.2	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	351	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.57	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-096-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 12:51	Holly Berry	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 14:49	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113424418	05/14/2011 14:14	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 00:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 04:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 10:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 23:49	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:52	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 12:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287599
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-4 SDG#: DE150-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 11:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 12:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 18:54	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287600
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-5 SDG#: DE150-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287600
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-5 SDG#: DE150-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.9	J	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.74	22.8	1
07914	Boron	7440-42-8	5.00	J	1.02	5.71	1
01650	Calcium	7440-70-2	2,200		7.00	22.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287600
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-5 SDG#: DE150-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,600		5.38	22.8	1
01656	Lithium	7439-93-2	20.6		0.25	2.3	1
01657	Magnesium	7439-95-4	3,610		2.90	11.4	1
06958	Manganese	7439-96-5	380		0.0891	0.571	1
10145	Phosphorus	7723-14-0	502		0.640	11.4	1
01662	Potassium	7440-09-7	3,460		20.6	57.1	1
01667	Sodium	7440-23-5	133		42.6	114	1
07968	Strontium	7440-24-6	18.0		0.0708	0.571	1
06969	Tin	7440-31-5	3.15	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,020		0.434	1.14	1
10146	Zirconium	7440-67-7	2.65	J	0.959	5.71	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0672	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.60		0.0896	0.448	2
06126	Barium	7440-39-3	119		0.121	0.448	2
06127	Beryllium	7440-41-7	0.685		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.177		0.0448	0.112	2
06131	Chromium	7440-47-3	16.9		0.134	0.448	2
06132	Cobalt	7440-48-4	6.09		0.0224	0.112	2
06133	Copper	7440-50-8	10.2		0.0739	0.448	2
06135	Lead	7439-92-1	5.94		0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.764		0.0560	0.112	2
06139	Nickel	7440-02-0	11.9		0.112	0.448	2
06141	Selenium	7782-49-2	0.177	J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0401	J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.295		0.0336	0.112	2
06148	Vanadium	7440-62-2	33.3		0.0246	0.112	2
06149	Zinc	7440-66-6	68.2		0.627	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	363		10.0	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287600
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-5 SDG#: DE150-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.80	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 01:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 04:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 11:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287600
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-5 SDG#: DE150-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:55	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 11:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 05:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 19:00	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.5	U	6.5	7.8	0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9	0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8	0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9	0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9	0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8	0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8	0.85
06192	Methylene Chloride	75-09-2	5.3		0.23	3.9	0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9	0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9	0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14	21.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		5.69	22.6	1
07914	Boron	7440-42-8	6.32		1.01	5.65	1
01650	Calcium	7440-70-2	2,550		6.93	22.6	1
01654	Iron	7439-89-6	21,800		5.32	22.6	1
01656	Lithium	7439-93-2	24.9		0.25	2.3	1
01657	Magnesium	7439-95-4	4,090		2.87	11.3	1
06958	Manganese	7439-96-5	314		0.0882	0.565	1
10145	Phosphorus	7723-14-0	433		0.633	11.3	1
01662	Potassium	7440-09-7	2,600		20.3	56.5	1
01667	Sodium	7440-23-5	381		42.2	113	1
07968	Strontium	7440-24-6	26.8		0.0701	0.565	1
06969	Tin	7440-31-5	3.05	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,220		0.429	1.13	1
10146	Zirconium	7440-67-7	4.38	J	0.949	5.65	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0672	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.25		0.0895	0.448	2
06126	Barium	7440-39-3	123		0.121	0.448	2
06127	Beryllium	7440-41-7	0.783		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0892	J	0.0448	0.112	2
06131	Chromium	7440-47-3	19.9		0.134	0.448	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	7.21	0.0224	0.112	2
06133	Copper	7440-50-8	8.50	0.0739	0.448	2
06135	Lead	7439-92-1	6.86	0.0116	0.224	2
06138	Molybdenum	7439-98-7	0.639	0.0560	0.112	2
06139	Nickel	7440-02-0	13.9	0.112	0.448	2
06141	Selenium	7782-49-2	0.0680 J	0.0448	0.448	2
06142	Silver	7440-22-4	0.0509 J	0.0134	0.112	2
06145	Thallium	7440-28-0	0.291	0.0336	0.112	2
06148	Vanadium	7440-62-2	39.8	0.0246	0.112	2
06149	Zinc	7440-66-6	62.6	0.627	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.23	1.1	1
	ASTM D1498		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	352	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.59	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-104-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111371AA	05/17/2011 13:13	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 15:08	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113424418	05/14/2011 14:22	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113424418	05/14/2011 14:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 01:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 05:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113624429	05/16/2011 20:50	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 11:26	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 18:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287601
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-6 SDG#: DE150-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 12:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 06:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 19:19	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287602
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-7 SDG#: DE150-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287602
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-7 SDG#: DE150-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.6	U	1.6	3.9	1
10138	Acenaphthylene	208-96-8	0.78	U	0.78	3.9	1
10138	Anthracene	120-12-7	0.78	U	0.78	3.9	1
10138	Benzo(a)anthracene	56-55-3	1.6	U	1.6	3.9	1
10138	Benzo(a)pyrene	50-32-8	1.6	U	1.6	3.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.6	U	1.6	3.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	U	1.6	3.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	U	1.6	3.9	1
10138	Butylbenzylphthalate	85-68-7	14	U	14	42	1
10138	Di-n-butylphthalate	84-74-2	14	U	14	42	1
10138	Chrysene	218-01-9	0.78	U	0.78	3.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	U	1.6	3.9	1
10138	Diethylphthalate	84-66-2	14	U	14	42	1
10138	Dimethylphthalate	131-11-3	14	U	14	42	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	U	14	42	1
10138	Fluoranthene	206-44-0	1.6	U	1.6	3.9	1
10138	Fluorene	86-73-7	1.6	U	1.6	3.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	U	1.6	3.9	1
10138	1-Methylnaphthalene	90-12-0	1.6	U	1.6	3.9	1
10138	2-Methylnaphthalene	91-57-6	1.6	U	1.6	3.9	1
10138	Naphthalene	91-20-3	1.6	U	1.6	3.9	1
10138	N-Nitrosodimethylamine	62-75-9	1.6	U	1.6	3.9	1
10138	Di-n-octylphthalate	117-84-0	14	U	14	42	1
10138	Phenanthrene	85-01-8	1.6	U	1.6	3.9	1
10138	Pyrene	129-00-0	1.6	U	1.6	3.9	1

Reporting limits were raised due to interference from the sample matrix.

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287602
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-7 SDG#: DE150-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.78	23.0	1
07914	Boron	7440-42-8	4.77	J	1.02	5.74	1
01650	Calcium	7440-70-2	2,100		7.04	23.0	1
01654	Iron	7439-89-6	22,600		5.41	23.0	1
01656	Lithium	7439-93-2	17.7		0.25	2.3	1
01657	Magnesium	7439-95-4	3,320		2.92	11.5	1
06958	Manganese	7439-96-5	116		0.0896	0.574	1
10145	Phosphorus	7723-14-0	163		0.643	11.5	1
01662	Potassium	7440-09-7	1,990		20.7	57.4	1
01667	Sodium	7440-23-5	224		42.9	115	1
07968	Strontium	7440-24-6	24.9		0.0712	0.574	1
06969	Tin	7440-31-5	3.65	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,220		0.437	1.15	1
10146	Zirconium	7440-67-7	4.51	J	0.965	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0710	U	0.0710	0.237	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.16		0.0947	0.473	2
06126	Barium	7440-39-3	49.6		0.128	0.473	2
06127	Beryllium	7440-41-7	0.503		0.0189	0.118	2
06128	Cadmium	7440-43-9	0.0473	U	0.0473	0.118	2
06131	Chromium	7440-47-3	18.0		0.142	0.473	2
06132	Cobalt	7440-48-4	2.75		0.0237	0.118	2
06133	Copper	7440-50-8	5.35		0.0781	0.473	2
06135	Lead	7439-92-1	6.17		0.0123	0.237	2
06138	Molybdenum	7439-98-7	0.388		0.0592	0.118	2
06139	Nickel	7440-02-0	6.29		0.118	0.473	2
06141	Selenium	7782-49-2	0.0526	J	0.0473	0.473	2
06142	Silver	7440-22-4	0.0203	J	0.0142	0.118	2
06145	Thallium	7440-28-0	0.233		0.0355	0.118	2
06148	Vanadium	7440-62-2	30.0		0.0260	0.118	2
06149	Zinc	7440-66-6	39.4		0.663	3.55	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.95	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287602
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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150-7 SDG#: DE150-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.24	1.2	1
	ASTM D1498		**mV**		**mV**	**mV**	
01821	32a OR Potential	n.a.	342		10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.31		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLA026	05/25/2011 02:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138SLD026	05/20/2011 05:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11138SLD026	05/19/2011 09:30	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	2	11143SLA026	05/24/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 11:45	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
07914	Boron	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
01654	Iron	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287602
LLI Group # 1246976
Account # 13013

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150-7 SDG#: DE150-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
06969	Tin	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111365708001	05/18/2011 19:03	John P Hook	1
06124	Antimony	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111361026001D	05/17/2011 11:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111361026001C	05/17/2011 11:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111361026001B	05/17/2011 11:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111361026001A	05/17/2011 11:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111365711001	05/17/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111365708001	05/16/2011 21:01	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111361026001	05/16/2011 21:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111365711001	05/16/2011 23:25	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202A	05/22/2011 12:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11139495201B	05/21/2011 06:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 19:31	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202A	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11139495201B	05/20/2011 03:30	James S Mathiot	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051311 Water
SSFL Area IV Collocated Soil Sampling
TB-051311

LLI Sample # WW 6287603
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 08:00

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-8 SDG#: DE150-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-051311 Water
SSFL Area IV Collocated Soil Sampling
TB-051311

LLI Sample # WW 6287603
LLI Group # 1246976
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 08:00

Submitted: 05/14/2011 10:00
Reported: 06/07/2011 16:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

150-8 SDG#: DE150-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/17/2011 23:29	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 13:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011 13:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/17/2011 23:29	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111371AA	Sample number(s): 6287596,6287598-6287599,6287601									
Acetone	6.7	U	6.7	8.0	ug/kg	109	106	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	111	112	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107	108	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	120	121	79-124	1	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	98	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	93	94	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	89	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	89	90	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	121*	121*	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	125*	125*	75-120	0	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	109	109	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	105	69-122	0	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	108	107	80-120	1	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	92	89	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	86	89	43-146	3	30
Chloroform	0.12	U	0.12	4.0	ug/kg	104	105	80-120	1	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	105	103	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	112	112	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	109	108	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	65	63	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95	96	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	101	77-120	0	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	100	80-120	0	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	98	80-120	0	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108	107	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	109	109	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108	109	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	90	89	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	111	114	80-120	3	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	102	97	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106	105	79-120	0	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111	113	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	107	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92	95	72-123	3	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	110	109	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	100	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	94	97	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	108	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	107	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	86	86	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	111	113	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	93	94	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111	110	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	119	120	75-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	87	92	74-121	5	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	97	98	61-134	1	30
Methylene Chloride	0.55	J	0.24	4.0	ug/kg	104	95	76-124	9	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	123*	120	77-120	2	30
Styrene	0.10	U	0.10	4.0	ug/kg	101	100	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107	108	71-123	1	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	109	108	77-120	1	30
Toluene	0.08	U	0.08	4.0	ug/kg	110	110	80-120	0	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99	103	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	97	68-120	4	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	98	97	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	103	80-120	0	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	103	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98	94	58-133	4	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	103	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	114	115	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	117	117	78-120	0	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	99	97	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109	108	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	104	80-120	0	30
Batch number: E111371AA	Sample number(s): 6287603									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	109	80-123	1	30
Batch number: E111381AA	Sample number(s): 6287596,6287598-6287599,6287601									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	106	70-130	2	30
Batch number: L111372AA	Sample number(s): 6287603									
Acetone	6	U	6.	20	ug/l	90	85	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	94	89	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	96	90	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	90	87	80-120	4	30
Bromoform	1	U	1.	5	ug/l	81	78	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	117	113	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	91	87	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	91	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	92	87	75-123	6	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	91	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	110	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	90	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	96	92	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	109	104	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	93	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	54	55	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	87	84	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	88	84	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	92	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	92	87	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	89	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	94	79-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	95	92	70-130	4	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	93	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	92	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	88	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	93	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	86	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	93	79-120	5	30
Freon 113	2	U	2.	10	ug/l	100	92	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	95	93	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	82	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	91	87	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	92	89	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	89	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	87	70-121	4	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	90	80-120	5	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	88	80-120	6	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	96	71-120	5	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	87	80-121	6	30
Toluene	0.7	U	0.7	5	ug/l	98	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	83	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	89	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	93	90	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	106	102	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	90	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	92	75-120	5	30
Vinyl Chloride	1	U	1.	5	ug/l	109	106	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	91	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
Batch number: 11138SLD026	Sample number(s): 6287596-6287602									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	105		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	109		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	98		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	226*		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	108		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	75		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11143SLA026	Sample number(s): 6287596-6287602									
Aniline	170 U		170.	500	ug/kg	74		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzoic acid	170 U		170.	500	ug/kg	83		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	91		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	82		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170		170.	500	ug/kg	87		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	68		51-117		
Phenol	17	U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 111380023A	Sample number(s): 6287596-6287602									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	103	99	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	110		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	119		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111361026001A	Sample number(s): 6287596-6287602									
Antimony	0.0600	U	0.0600	0.200	mg/kg	155		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	107		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	108		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	107		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	111		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111361026001B	Sample number(s): 6287596-6287602									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		83-111		
Batch number: 111361026001C	Sample number(s): 6287596-6287602									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 111361026001D	Sample number(s): 6287596-6287602									
Barium	0.108	U	0.108	0.400	mg/kg	107		81-111		
Batch number: 111365708001	Sample number(s): 6287596-6287602									
Aluminum	5.03	U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	90		78-110		
Calcium	9.14	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	100		86-110		
Tin	1.61	J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	92		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111365711001	Sample number(s): 6287596-6287602									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	100		88-123		
Batch number: 11139495201B	Sample number(s): 6287596-6287598,6287600-6287602									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11140243201A	Sample number(s): 6287596-6287602									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11141621201A	Sample number(s): 6287599									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11141621202A	Sample number(s): 6287596-6287602									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
Batch number: 11139039401B	Sample number(s): 6287596-6287598									
18a pH by 9045C						100		95-105		
Batch number: 11139039402A	Sample number(s): 6287599-6287602									
18a pH by 9045C						100		95-105		
Batch number: 11139182101B	Sample number(s): 6287596-6287598									
32a OR Potential						99		98-102		
Batch number: 11139182102A	Sample number(s): 6287599-6287602									
32a OR Potential						98		98-102		
Batch number: 11139162401A	Sample number(s): 6287596									
Moisture Content by 160.3						100		80-120		
Batch number: 11139162401B	Sample number(s): 6287597-6287602									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111381AA	Sample number(s): 6287596,6287598-6287599,6287601 UNSPK: P288929								
1,4-Dioxane	90	89	70-130	1	30				
Batch number: 11138SLD026	Sample number(s): 6287596-6287602 UNSPK: 6287596								
Acenaphthene	92	93	63-105	1	30				
Acenaphthylene	93	93	67-114	0	30				
Anthracene	101	102	60-122	1	30				
Benzo(a)anthracene	106	107	59-128	0	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	110	109	45-138	1	30				
Benzo(b)fluoranthene	116	113	43-155	3	30				
Benzo(g,h,i)perylene	104	101	33-141	4	30				
Benzo(k)fluoranthene	102	105	42-144	3	30				
Butylbenzylphthalate	106	109	57-173	2	30				
Di-n-butylphthalate	104	107	65-148	2	30				
Chrysene	102	103	48-134	1	30				
Dibenz(a,h)anthracene	114	113	22-133	2	30				
Diethylphthalate	101	101	70-136	0	30				
Dimethylphthalate	97	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	92	96	39-167	2	30				
Fluoranthene	106	109	26-166	2	30				
Fluorene	100	101	66-122	0	30				
Indeno(1,2,3-cd)pyrene	111	109	21-143	2	30				
1-Methylnaphthalene	99	100	72-123	1	30				
2-Methylnaphthalene	88	90	64-103	2	30				
Naphthalene	92	94	61-102	2	30				
N-Nitrosodimethylamine	79	82	48-113	3	30				
Di-n-octylphthalate	120	121	40-192	1	30				
Phenanthrene	94	97	12-165	2	30				
Pyrene	96	98	15-153	1	30				

Batch number: 11143SLA026 Sample number(s): 6287596-6287602 UNSPK: 6287596

Aniline	85	74	35-95	14	30				
Benzidine	42	31*	35-141	31*	30				
Benzoic acid	82	87	10-173	6	30				
Benzyl alcohol	99	91	67-115	8	30				
4-Bromophenyl-phenylether	91	93	67-129	3	30				
Carbazole	94	96	64-120	2	30				
4-Chloro-3-methylphenol	94	93	76-110	1	30				
4-Chloroaniline	77	73	23-95	5	30				
bis(2-Chloroethoxy)methane	92	90	75-104	3	30				
bis(2-Chloroethyl)ether	94	87	60-116	8	30				
bis(2-Chloroisopropyl)ether	87	84	55-142	4	30				
2-Chloronaphthalene	72	71	50-141	1	30				
2-Chlorophenol	100	93	73-121	7	30				
4-Chlorophenyl-phenylether	92	92	80-109	1	30				
Dibenzofuran	95	92	71-112	3	30				
1,2-Dichlorobenzene	81	80	66-108	1	30				
1,3-Dichlorobenzene	77	76	63-109	1	30				
1,4-Dichlorobenzene	77	77	70-100	0	30				
3,3'-Dichlorobenzidine	78	77	16-119	2	30				
2,4-Dichlorophenol	100	98	78-117	2	30				
2,4-Dimethylphenol	90	88	78-110	2	30				
3,5-Dimethylphenol	102	101	70-130	1	30				
4,6-Dinitro-2-methylphenol	93	91	24-116	1	30				
2,4-Dinitrophenol	87	85	20-143	3	30				
2,4-Dinitrotoluene	97	100	73-113	2	30				
2,6-Dinitrotoluene	95	95	69-123	0	30				
1,2-Diphenylhydrazine	97	97	71-129	0	30				
bis(2-Ethylhexyl)phthalate	87	93	63-122	6	30				
Hexachlorobenzene	90	92	77-114	2	30				
Hexachlorobutadiene	78	84	62-120	8	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorocyclopentadiene	80	80	10-153	0	30				
Hexachloroethane	73	75	57-109	3	30				
Isophorone	91	89	73-102	2	30				
2-Methylphenol	96	90	75-111	7	30				
4-Methylphenol	105	97	71-111	8	30				
2-Nitroaniline	99	97	67-125	2	30				
3-Nitroaniline	98	94	59-122	3	30				
4-Nitroaniline	87	86	52-112	1	30				
Nitrobenzene	92	92	72-106	0	30				
2-Nitrophenol	91	90	74-115	1	30				
4-Nitrophenol	93	92	54-113	1	30				
N-Nitroso-di-n-propylamine	91	82	60-116	11	30				
N-Nitrosodiphenylamine	93	95	86-145	2	30				
Pentachlorophenol	81	82	28-127	1	30				
Phenol	101	95	58-126	6	30				
1,2,4-Trichlorobenzene	86	90	72-115	5	30				
2,4,5-Trichlorophenol	93	94	78-109	1	30				
2,4,6-Trichlorophenol	94	97	77-115	2	30				
Batch number: 111380023A	Sample number(s): 6287596-6287602 UNSPK: P288929								
PCB-1016	96	98	29-146	2	50				
PCB-1260	113	114	39-149	0	50				
Batch number: 111361026001A	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Antimony	80	76	75-125	3	20	0.401	0.231	54* (1)	20
Arsenic	151*	102	75-125	12	20	5.44	4.96	9	20
Beryllium	116	95	75-125	10	20	0.859	0.700	20	20
Cadmium	124	123	75-125	1	20	0.306	0.329	7 (1)	20
Chromium	142*	91	75-125	12	20	30.1	25.2	18	20
Cobalt	124	117	75-125	5	20	10.1	9.33	8	20
Copper	132*	120	75-125	4	20	17.9	15.9	12	20
Lead	134*	114	75-125	5	20	8.97	7.69	15	20
Nickel	143*	122	75-125	6	20	19.3	17.1	12	20
Silver	125	118	75-125	5	20	0.0346 J	0.0260 J	28* (1)	20
Thallium	132*	111	75-125	9	20	0.384	0.315	20 (1)	20
Vanadium	193 (2)	107 (2)	75-125	12	20	55.3	47.6	15	20
Zinc	136 (2)	38 (2)	75-125	12	20	67.5	56.9	17	20
Batch number: 111361026001B	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Selenium	110	109	75-125	1	20	0.231 J	0.194 J	18 (1)	20
Batch number: 111361026001C	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Molybdenum	121	115	75-125	5	20	0.912	0.619	38*	20
Batch number: 111361026001D	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Barium	234 (2)	105 (2)	75-125	8	20	131	116	12	20
Batch number: 111365708001	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Aluminum	2991 (2)	4057 (2)	75-125	7	20	23,800	23,100	3	20
Boron	93	94	84-115	0	20	6.41	6.43	0 (1)	20
Calcium	137 (2)	205 (2)	75-125	5	20	4,420	4,540	3	20
Iron	2410	4209	75-125	6	20	25,600	25,900	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	(2)	(2)							
Lithium	100	102	82-114	1	20	18.8	18.6	1	20
Magnesium	266 (2)	448 (2)	75-125	6	20	5,120	5,170	1	20
Manganese	77 (2)	42 (2)	75-125	4	20	420	447	6	20
Phosphorus	97	91	75-125	3	20	178	180	1	20
Potassium	152 (2)	166 (2)	75-125	2	20	4,470	4,580	2	20
Sodium	96	98	75-125	1	20	128	129	1 (1)	20
Strontium	98	101	75-115	2	20	30.5	30.4	0	20
Tin	87	87	80-110	1	20	2.76 J	2.62 J	5 (1)	20
Titanium	322 (2)	348 (2)	75-125	1	20	1,220	1,160	5	20
Zirconium	91	93	75-125	1	20	5.67	5.76	2 (1)	20
Batch number: 111365711001	Sample number(s): 6287596-6287602 UNSPK: P282746 BKG: P282746								
Mercury	87	89	65-135	1	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 11139495201B	Sample number(s): 6287596-6287598,6287600-6287602 UNSPK: P286421 BKG: P286421								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11140243201A	Sample number(s): 6287596-6287602 UNSPK: P288929 BKG: P288929								
3a Cr VI by EPA 7199	91		75-125			0.51 J	0.57 J	10 (1)	20
Batch number: 11141621201A	Sample number(s): 6287599 UNSPK: P288929 BKG: P288929								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11141621202A	Sample number(s): 6287596-6287602 UNSPK: 6287596 BKG: 6287596								
11a Anions by 300.0 - Fluoride	46*		80-120			2.1	2.6	19 (1)	20
Batch number: 11139039401B	Sample number(s): 6287596-6287598 BKG: P286417								
18a pH by 9045C						6.94	7.08	2	3
Batch number: 11139039402A	Sample number(s): 6287599-6287602 BKG: P288929								
18a pH by 9045C						6.53	6.48	1	3
Batch number: 11139182101B	Sample number(s): 6287596-6287598 BKG: P286417								
32a OR Potential						388	400	3	6
Batch number: 11139182102A	Sample number(s): 6287599-6287602 BKG: P288929								
32a OR Potential						389	400	3	6
Batch number: 11139162401A	Sample number(s): 6287596 BKG: 6287596								
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11139162401B	Sample number(s): 6287597-6287602 BKG: 6287599								
Moisture Content by 160.3						15.8	14.9	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6287596	101	102	113	82
6287598	101	103	107	88
6287599	101	102	108	88
6287601	100	103	106	89
Blank	97	96	107	90
LCS	97	99	110	100
LCSD	97	99	109	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111371AA

	Toluene-d8
6287603	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111381AA

	Toluene-d8
6287596	99
6287598	98
6287599	99
6287601	98
Blank	99
LCS	99
LCSD	99
MS	99
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111372AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6287603	101	101	101	99
Blank	99	101	101	99
LCS	102	99	102	101
LCSD	103	100	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11138SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6287596	95	94	101

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246976
Reported: 06/07/11 at 04:39 PM

Surrogate Quality Control

6287597	92	92	101
6287598	85	84	95
6287599	93	95	105
6287600	94	96	102
6287601	94	95	101
6287602	36*	26*	17*
Blank	87	94	107
LCS	98	93	100
MS	100	93	100
MSD	100	91	101
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11143SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6287596	88	88	80	81	81	80
6287597	88	90	85	84	84	87
6287598	89	89	82	81	80	83
6287599	89	90	80	81	82	84
6287600	87	87	85	80	81	89
6287601	89	89	79	83	84	84
6287602	101	102	95	92	94	98
Blank	85	88	77	82	84	82
LCS	85	86	81	83	85	81
MS	96	97	85	85	86	84
MSD	89	89	83	85	84	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111380023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6287596	114	114
6287597	106	101
6287598	107	104
6287599	97	102
6287600	107	116
6287601	140*	140*
6287602	134	141*
Blank	118	118
LCS	120	115
LCSD	112	117
MS	99	107
MSD	103	105
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1246976 Sample# 6287596-603

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-094-SA8N-SB-4.5	05.13.11	1025	SOIL	NONE	4-Encores									X	X											
SL-094-SA8N-SB-4.0-5.0	05.13.11	1030	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-094-SA8N-SB-7.5-8.5	05.13.11	1035	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-095-SA8N-SB-4.5	05.13.11	1145	SOIL	NONE	4-Encores									X	X											
SL-095-SA8N-SB-4.0-5.0	05.13.11	1143	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-096-SA8N-SB-4.5	05.13.11	0905	SOIL	NONE	4-Encores									X	X											
SL-096-SA8N-SB-4.0-5.0	05.13.11	0910	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-096-SA8N-SB-9.0-10.0	05.13.11	0915	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-104-SA8N-SB-4.5	05.13.11	1450	SOIL	NONE	4-Encores									X	X											
SL-104-SA8N-SB-4.0-5.0	05.13.11	1450	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-104-SA8N-SB-9.0-10.0	05.13.11	1506	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
TB-051311	05.13.11	0800	WATER	NONE	4-40 mL vials									X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	5/13/2011 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	5/14/11 0800	8695 1441 7755	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/14/2011
Group Number: 1246979
SDG: DX081
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA8N-SB-4.0-5.0 Soil	6287608
SL-094-SA8N-SB-7.5-8.5 Soil	6287609
SL-095-SA8N-SB-4.0-5.0 Soil	6287610
SL-096-SA8N-SB-4.0-5.0 Soil	6287611
SL-096-SA8N-SB-9.0-10.0 Soil	6287612
SL-104-SA8N-SB-4.0-5.0 Soil	6287613
SL-104-SA8N-SB-9.0-10.0 Soil	6287614

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287608
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8101 SDG#: DX081-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287608
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Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8101 SDG#: DX081-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0319	JB	0.0213	1.19	1
11031	12378-PeCDD	40321-76-4	0.205	JB	0.0488	5.95	1
11031	123478-HxCDD	39227-28-6	0.0364	U	0.0364	5.95	1
11031	123678-HxCDD	57653-85-7	0.584	JBQ	0.0372	5.95	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0309	5.95	1
11031	1234678-HpCDD	35822-46-9	0.590	JBQ	0.0452	5.95	1
11031	OCDD	3268-87-9	2.12	JB	0.0446	11.9	1
11031	2378-TCDF	51207-31-9	0.0606	J	0.0267	1.19	1
11031	12378-PeCDF	57117-41-6	0.313	JBQ	0.0215	5.95	1
11031	23478-PeCDF	57117-31-4	0.0226	U	0.0226	5.95	1
11031	123478-HxCDF	70648-26-9	0.105	JB	0.0358	5.95	1
11031	123678-HxCDF	57117-44-9	0.112	JB	0.0305	5.95	1
11031	123789-HxCDF	72918-21-9	1.47	JB	0.0257	5.95	1
11031	234678-HxCDF	60851-34-5	0.121	JBQ	0.0242	5.95	1
11031	1234678-HpCDF	67562-39-4	0.256	JBQ	0.0159	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0900	JB	0.0220	5.95	1
11031	OCDF	39001-02-0	0.390	JBQ	0.0661	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-094-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287608
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8101 SDG#: DX081-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-4.0-5.0

LLI Sample # SW 6287608
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:30

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8101 SDG#: DX081-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 07:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401A	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287609
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8102 SDG#: DX081-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287609
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8102 SDG#: DX081-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0187	U	0.0187	1.10	1
11031	12378-PeCDD	40321-76-4	0.0284	U	0.0284	5.52	1
11031	123478-HxCDD	39227-28-6	0.0247	U	0.0247	5.52	1
11031	123678-HxCDD	57653-85-7	0.0441	JBQ	0.0258	5.52	1
11031	123789-HxCDD	19408-74-3	0.0648	JB	0.0229	5.52	1
11031	1234678-HpCDD	35822-46-9	0.314	JBQ	0.0340	5.52	1
11031	OCDD	3268-87-9	0.894	JB	0.0399	11.0	1
11031	2378-TCDF	51207-31-9	0.0195	JQ	0.0189	1.10	1
11031	12378-PeCDF	57117-41-6	0.0187	JB	0.0168	5.52	1
11031	23478-PeCDF	57117-31-4	0.0808	JB	0.0164	5.52	1
11031	123478-HxCDF	70648-26-9	0.0515	JBQ	0.0196	5.52	1
11031	123678-HxCDF	57117-44-9	0.0485	JBQ	0.0174	5.52	1
11031	123789-HxCDF	72918-21-9	0.0750	JB	0.0198	5.52	1
11031	234678-HxCDF	60851-34-5	0.0702	JBQ	0.0156	5.52	1
11031	1234678-HpCDF	67562-39-4	0.167	JB	0.0131	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0740	JBQ	0.0193	5.52	1
11031	OCDF	39001-02-0	0.201	JB	0.0547	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA8N-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287609
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8102 SDG#: DX081-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SB-7.5-8.5

LLI Sample # SW 6287609
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 10:35

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8102 SDG#: DX081-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 08:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287610
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8103 SDG#: DX081-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287610
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8103 SDG#: DX081-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0176 U	0.0176	1.13	1
11031	12378-PeCDD	40321-76-4	0.0273 JBQ	0.0258	5.65	1
11031	123478-HxCDD	39227-28-6	0.0474 JBQ	0.0209	5.65	1
11031	123678-HxCDD	57653-85-7	0.0650 JBQ	0.0214	5.65	1
11031	123789-HxCDD	19408-74-3	0.0791 JB	0.0202	5.65	1
11031	1234678-HpCDD	35822-46-9	0.257 JB	0.0349	5.65	1
11031	OCDD	3268-87-9	0.579 JB	0.0355	11.3	1
11031	2378-TCDF	51207-31-9	0.0207 U	0.0207	1.13	1
11031	12378-PeCDF	57117-41-6	0.0459 JB	0.0135	5.65	1
11031	23478-PeCDF	57117-31-4	0.0672 JBQ	0.0138	5.65	1
11031	123478-HxCDF	70648-26-9	0.0425 JB	0.0158	5.65	1
11031	123678-HxCDF	57117-44-9	0.0318 JBQ	0.0127	5.65	1
11031	123789-HxCDF	72918-21-9	0.126 JB	0.0159	5.65	1
11031	234678-HxCDF	60851-34-5	0.0557 JBQ	0.0141	5.65	1
11031	1234678-HpCDF	67562-39-4	0.135 JB	0.0116	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0866 JBQ	0.0193	5.65	1
11031	OCDF	39001-02-0	0.285 JB	0.0499	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-095-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287610
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8103 SDG#: DX081-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SB-4.0-5.0

LLI Sample # SW 6287610
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 11:43

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8103 SDG#: DX081-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 09:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287611
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8104 SDG#: DX081-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287611
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8104 SDG#: DX081-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0192	U	0.0192	1.17	1
11031	12378-PeCDD	40321-76-4	0.0431	JB	0.0293	5.83	1
11031	123478-HxCDD	39227-28-6	0.0498	JBQ	0.0267	5.83	1
11031	123678-HxCDD	57653-85-7	0.208	JB	0.0277	5.83	1
11031	123789-HxCDD	19408-74-3	0.375	JB	0.0272	5.83	1
11031	1234678-HpCDD	35822-46-9	0.342	JB	0.0366	5.83	1
11031	OCDD	3268-87-9	0.767	JB	0.0386	11.7	1
11031	2378-TCDF	51207-31-9	0.0233	U	0.0233	1.17	1
11031	12378-PeCDF	57117-41-6	0.0871	JB	0.0169	5.83	1
11031	23478-PeCDF	57117-31-4	0.0521	JB	0.0170	5.83	1
11031	123478-HxCDF	70648-26-9	0.0645	JBQ	0.0220	5.83	1
11031	123678-HxCDF	57117-44-9	0.0424	JBQ	0.0182	5.83	1
11031	123789-HxCDF	72918-21-9	0.585	JBQ	0.0247	5.83	1
11031	234678-HxCDF	60851-34-5	0.0839	JBQ	0.0197	5.83	1
11031	1234678-HpCDF	67562-39-4	0.161	JB	0.0126	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0677	JB	0.0219	5.83	1
11031	OCDF	39001-02-0	0.215	JBQ	0.0542	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287611
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8104 SDG#: DX081-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-4.0-5.0

LLI Sample # SW 6287611
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:10

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8104 SDG#: DX081-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 10:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287612
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8105 SDG#: DX081-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287612
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8105 SDG#: DX081-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0202 U	0.0202	1.14	1
11031	12378-PeCDD	40321-76-4	0.0984 JBQ	0.0287	5.72	1
11031	123478-HxCDD	39227-28-6	0.0361 U	0.0361	5.72	1
11031	123678-HxCDD	57653-85-7	0.286 JB	0.0351	5.72	1
11031	123789-HxCDD	19408-74-3	0.504 JB	0.0361	5.72	1
11031	1234678-HpCDD	35822-46-9	0.321 JB	0.0384	5.72	1
11031	OCDD	3268-87-9	0.886 JB	0.0445	11.4	1
11031	2378-TCDF	51207-31-9	0.0233 U	0.0233	1.14	1
11031	12378-PeCDF	57117-41-6	0.0656 JB	0.0166	5.72	1
11031	23478-PeCDF	57117-31-4	0.0580 JBQ	0.0167	5.72	1
11031	123478-HxCDF	70648-26-9	0.0859 JB	0.0176	5.72	1
11031	123678-HxCDF	57117-44-9	0.0695 JB	0.0163	5.72	1
11031	123789-HxCDF	72918-21-9	0.244 JBQ	0.0189	5.72	1
11031	234678-HxCDF	60851-34-5	0.0614 JBQ	0.0168	5.72	1
11031	1234678-HpCDF	67562-39-4	0.168 JB	0.0137	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0771 JB	0.0227	5.72	1
11031	OCDF	39001-02-0	0.304 JB	0.0546	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287612
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8105 SDG#: DX081-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SB-9.0-10.0

LLI Sample # SW 6287612
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 09:15

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8105 SDG#: DX081-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 11:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287613
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8106 SDG#: DX081-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287613
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8106 SDG#: DX081-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0239 JB	0.0203	1.11	1
11031	12378-PeCDD	40321-76-4	0.0988 JBQ	0.0303	5.54	1
11031	123478-HxCDD	39227-28-6	0.0591 JBQ	0.0265	5.54	1
11031	123678-HxCDD	57653-85-7	0.111 JB	0.0269	5.54	1
11031	123789-HxCDD	19408-74-3	0.0804 JBQ	0.0268	5.54	1
11031	1234678-HpCDD	35822-46-9	0.337 JB	0.0412	5.54	1
11031	OCDD	3268-87-9	1.20 JB	0.0457	11.1	1
11031	2378-TCDF	51207-31-9	0.0259 U	0.0259	1.11	1
11031	12378-PeCDF	57117-41-6	0.0761 JBQ	0.0156	5.54	1
11031	23478-PeCDF	57117-31-4	0.109 JB	0.0163	5.54	1
11031	123478-HxCDF	70648-26-9	0.102 JBQ	0.0227	5.54	1
11031	123678-HxCDF	57117-44-9	0.0846 JB	0.0200	5.54	1
11031	123789-HxCDF	72918-21-9	0.134 JBQ	0.0247	5.54	1
11031	234678-HxCDF	60851-34-5	0.115 JBQ	0.0209	5.54	1
11031	1234678-HpCDF	67562-39-4	0.216 JB	0.0119	5.54	1
11031	1234789-HpCDF	55673-89-7	0.110 JBQ	0.0227	5.54	1
11031	OCDF	39001-02-0	0.304 JB	0.0643	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287613
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8106 SDG#: DX081-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-4.0-5.0

LLI Sample # SW 6287613
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 14:50

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8106 SDG#: DX081-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 12:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287614
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8107 SDG#: DX081-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287614
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8107 SDG#: DX081-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0188	U	0.0188	1.16	1
11031	12378-PeCDD	40321-76-4	0.0222	U	0.0222	5.81	1
11031	123478-HxCDD	39227-28-6	0.104	JBQ	0.0200	5.81	1
11031	123678-HxCDD	57653-85-7	0.0850	JBQ	0.0205	5.81	1
11031	123789-HxCDD	19408-74-3	0.0994	JB	0.0191	5.81	1
11031	1234678-HpCDD	35822-46-9	0.257	JB	0.0234	5.81	1
11031	OCDD	3268-87-9	0.651	JB	0.0192	11.6	1
11031	2378-TCDF	51207-31-9	0.0179	U	0.0179	1.16	1
11031	12378-PeCDF	57117-41-6	0.170	JB	0.0129	5.81	1
11031	23478-PeCDF	57117-31-4	0.182	JB	0.0128	5.81	1
11031	123478-HxCDF	70648-26-9	0.131	JB	0.0174	5.81	1
11031	123678-HxCDF	57117-44-9	0.131	JB	0.0154	5.81	1
11031	123789-HxCDF	72918-21-9	0.118	JB	0.0149	5.81	1
11031	234678-HxCDF	60851-34-5	0.145	JBQ	0.0140	5.81	1
11031	1234678-HpCDF	67562-39-4	0.231	JB	0.00876	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0827	JB	0.0133	5.81	1
11031	OCDF	39001-02-0	0.288	JB	0.0276	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	100	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	117	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	101	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	97	17 - 157
13C12-1278-TCDD (CRS)	108	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287614
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8107 SDG#: DX081-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA8N-SB-9.0-10.0

LLI Sample # SW 6287614
LLI Group # 1246979
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/13/2011 15:06

Submitted: 05/14/2011 10:00
Reported: 05/24/2011 21:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8107 SDG#: DX081-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137001	05/20/2011 13:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11137001	05/17/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11139162401B	05/19/2011 17:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246979
Reported: 05/24/11 at 09:41 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11139162401A	Sample number(s): 6287608								
Moisture Content by 160.3					100		80-120		
Batch number: 11139162401B	Sample number(s): 6287609-6287614								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137001	Sample number(s): 6287608-6287614								
2378-TCDD	0.0449 J	0.0174	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0632 J	0.0228	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0292 J	0.0186	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0513 J	0.0190	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0377 J	0.0186	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.254 J	0.0262	5.00	ng/kg	96		70-140		
OCDD	0.399 J	0.0224	10.0	ng/kg	95		78-144		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0253 J	0.0128	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0780 J	0.0121	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0716 J	0.0143	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0503 J	0.0125	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0917 J	0.0156	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0914 J	0.0127	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.188 J	0.0100	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.106 J	0.0179	5.00	ng/kg	96		78-138		
OCDF	0.292 J	0.0360	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139162401A	Sample number(s): 6287608 BKG: P287596								
Moisture Content by 160.3						16.4	18.4	11	20
Batch number: 11139162401B	Sample number(s): 6287609-6287614 BKG: P287599								
Moisture Content by 160.3						15.8	14.9	6	20
Batch number: 11137001	Sample number(s): 6287608-6287614 UNSPK: P281729								
2378-TCDD	93	93	67-158	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246979
Reported: 05/24/11 at 09:41 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	97	99	70-142	5	25				
123478-HxCDD	93	98	70-164	8	25				
123678-HxCDD	91	96	76-134	8	25				
123789-HxCDD	91	94	64-162	5	25				
1234678-HpCDD	80	103	70-140	8	25				
OCDD	61 (2)	146 (2)	78-144	15	25				
2378-TCDF	90	98	75-158	8	25				
12378-PeCDF	91	95	80-134	7	25				
23478-PeCDF	89	93	68-160	7	25				
123478-HxCDF	91	100	72-134	11	25				
123678-HxCDF	92	95	84-130	5	25				
123789-HxCDF	95	95	78-130	3	25				
234678-HxCDF	93	100	70-156	8	25				
1234678-HpCDF	76*	93	82-122	10	25				
1234789-HpCDF	91	94	78-138	6	25				
OCDF	85	92	63-170	7	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6287608	77	65	51	58	72	81
6287609	73	72	65	71	77	76
6287610	75	71	65	76	74	75
6287611	74	68	65	76	73	67
6287612	77	72	72	78	77	79
6287613	76	72	73	82	75	77
6287614	87	94	78	85	90	101
Blank	83	89	86	96	90	91
MS	82	83	80	79	83	84
MSD	81	82	82	82	81	79
OPR	72	74	74	82	76	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6287608	68	63	54	81	68	68
6287609	80	69	61	89	73	80
6287610	82	65	57	89	76	79
6287611	84	61	54	90	74	79
6287612	85	67	60	89	75	79
6287613	90	63	56	92	76	84
6287614	110	95	97	108	100	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1246979
Reported: 05/24/11 at 09:41 PM

Surrogate Quality Control

Blank	113	84	82	107	92	96
MS	77	79	69	96	82	83
MSD	76	76	68	94	81	81
OPR	96	67	65	95	78	81
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6287608	69	82	74	71	72	71
6287609	77	84	80	74	72	77
6287610	79	84	78	71	70	78
6287611	79	81	76	70	68	74
6287612	82	81	77	73	74	77
6287613	82	82	79	72	72	79
6287614	93	100	108	117	82	97
Blank	96	96	100	102	80	92
MS	83	85	81	72	83	82
MSD	80	83	78	70	83	82
OPR	82	82	82	82	68	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1246979 Sample#6287608-14

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-094-SA8N-SB-4.5	05.13.11	1025	SOIL	NONE	4-Encores										X	X											
SL-094-SA8N-SB-4.0-5.0	05.13.11	1030	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-094-SA8N-SB-7.5-8.5	05.13.11	1035	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-095-SA8N-SB-4.5	05.13.11	1145	SOIL	NONE	4-Encores										X	X											
SL-095-SA8N-SB-4.0-5.0	05.13.11	1148	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-096-SA8N-SB-4.5	05.13.11	0905	SOIL	NONE	4-Encores										X	X											
SL-096-SA8N-SB-4.0-5.0	05.13.11	0910	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-096-SA8N-SB-9.0-10.0	05.13.11	0915	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-104-SA8N-SB-4.5	05.13.11	1450	SOIL	NONE	4-Encores										X	X											
SL-104-SA8N-SB-4.0-5.0	05.13.11	1450	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-104-SA8N-SB-9.0-10.0	05.13.11	1506	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-051311	05.13.11	0800	WATER	NONE	4-40 mL vials										X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	5/13/2011 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 5/14/11 1000	Airbill No.(s) 8695 1441 7755	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/27/2011
Group Number: 1248956
SDG: DE165
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8N-SB-4.0-5.0 Soil	6300332
SL-001-SA8N-SB-9.0-10.0 Soil	6300333

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	9.8		7.3	8.8	0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.4	0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	0.93
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4	0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	0.93
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4	0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8	0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	0.93
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4	0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4	0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	0.93
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4	0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4	0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4	0.93
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5	0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4	0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4	0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4	0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4	0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4	0.93
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4	0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	0.93
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	0.93
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5	0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4	0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8	0.93
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	0.93
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8	0.93
06192	Methylene Chloride	75-09-2	2.0	J	0.26	4.4	0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	0.93

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4	0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	0.93
06192	Toluene	108-88-3	0.09	U	0.09	4.4	0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4	0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	0.93
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4	0.93
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	0.93
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4	0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	0.93
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17	23.95
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12	1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12	1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,300		5.77	22.9	1
07914	Boron	7440-42-8	18.4		1.02	5.73	1
01650	Calcium	7440-70-2	19,600		7.03	22.9	1
01654	Iron	7439-89-6	35,800		27.0	115	5
01656	Lithium	7439-93-2	27.6		0.25	2.3	1
01657	Magnesium	7439-95-4	8,040		2.91	11.5	1
06958	Manganese	7439-96-5	593		0.0894	0.573	1
10145	Phosphorus	7723-14-0	138		0.642	11.5	1
01662	Potassium	7440-09-7	3,150		20.6	57.3	1
01667	Sodium	7440-23-5	170		42.8	115	1
07968	Strontium	7440-24-6	50.1		0.0711	0.573	1
06969	Tin	7440-31-5	2.84	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,280		0.436	1.15	1
10146	Zirconium	7440-67-7	4.28	J	0.963	5.73	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0694	0.231	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.20		0.0926	0.463	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	143	0.125	0.463	2
06127	Beryllium	7440-41-7	0.821	0.0185	0.116	2
06128	Cadmium	7440-43-9	0.247	0.0463	0.116	2
06131	Chromium	7440-47-3	32.4	0.139	0.463	2
06132	Cobalt	7440-48-4	10.9	0.0231	0.116	2
06133	Copper	7440-50-8	17.1	0.0764	0.463	2
06135	Lead	7439-92-1	12.8	0.0120	0.231	2
06138	Molybdenum	7439-98-7	0.416	0.0579	0.116	2
06139	Nickel	7440-02-0	22.8	0.116	0.463	2
06141	Selenium	7782-49-2	0.112 J	0.0463	0.463	2
06142	Silver	7440-22-4	0.0563 J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.352	0.0347	0.116	2
06148	Vanadium	7440-62-2	56.3	0.0255	0.116	2
06149	Zinc	7440-66-6	67.1	0.648	3.47	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106 J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39 J	0.24	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-001-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 18:36	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 11:07	Jason M Long	23.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114724543	05/27/2011 15:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114724543	05/27/2011 15:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114724543	05/27/2011 15:23	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114724543	05/27/2011 15:04	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 08:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 14:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 05:35	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111470006A	05/30/2011 13:07	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111470006A	05/30/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 19:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:30	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 03:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 03:02	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300332
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00140 SDG#: DE165-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 03:02	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 03:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 19:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 16:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 14:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300333
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00190 SDG#: DE165-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300333
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00190 SDG#: DE165-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300333
LLI Group # 1248956
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 12:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00190 SDG#: DE165-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11	1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11	1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		5.55	22.1	1
07914	Boron	7440-42-8	10.0		0.981	5.51	1
01650	Calcium	7440-70-2	7,990		6.76	22.1	1
01654	Iron	7439-89-6	22,200		5.19	22.1	1
01656	Lithium	7439-93-2	23.5		0.24	2.2	1
01657	Magnesium	7439-95-4	3,730		2.80	11.0	1
06958	Manganese	7439-96-5	168		0.0860	0.551	1
10145	Phosphorus	7723-14-0	96.0		0.618	11.0	1
01662	Potassium	7440-09-7	2,140		19.9	55.1	1
01667	Sodium	7440-23-5	115		41.1	110	1
07968	Strontium	7440-24-6	23.1		0.0684	0.551	1
06969	Tin	7440-31-5	2.81	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,010		0.419	1.10	1
10146	Zirconium	7440-67-7	1.88	J	0.926	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0655	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.41		0.0874	0.437	2
06126	Barium	7440-39-3	66.9		0.118	0.437	2
06127	Beryllium	7440-41-7	0.562		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.121		0.0437	0.109	2
06131	Chromium	7440-47-3	17.4		0.131	0.437	2
06132	Cobalt	7440-48-4	5.40		0.0218	0.109	2
06133	Copper	7440-50-8	8.04		0.0721	0.437	2
06135	Lead	7439-92-1	5.81		0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.218		0.0546	0.109	2
06139	Nickel	7440-02-0	11.0		0.109	0.437	2
06141	Selenium	7782-49-2	0.0437	U	0.0437	0.437	2
06142	Silver	7440-22-4	0.0205	J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.285		0.0328	0.109	2
06148	Vanadium	7440-62-2	34.7		0.0240	0.109	2
06149	Zinc	7440-66-6	49.3		0.612	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.90	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300333
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00190 SDG#: DE165-02*

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.28	J	0.22	1.1	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.27		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 09:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 15:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:55	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 05:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111470006A	05/30/2011 13:20	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111470006A	05/30/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 19:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300333
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00190 SDG#: DE165-02*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 09:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 03:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 03:05	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 03:05	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 03:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 19:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 17:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 15:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111521AA	Sample number(s): 6300332									
Acetone	8.6		6.7	8.0	ug/kg	116		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	112		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	66		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	59		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	66		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	78	74	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	117		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	114		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	97		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	98	78-120	4	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	126		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	110		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	127		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	101		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	69		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
Batch number: E111531AA	Sample number(s): 6300332									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	111	70-130	6	30
Batch number: 11151SLD026	Sample number(s): 6300332-6300333									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	77		51-117		
Phenol	17	U	17.	170	ug/kg	87		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11152SLH026	Sample number(s): 6300332-6300333									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	81		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	73		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	82		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	90		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	95		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	83		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	84		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	91		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	83		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	91		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	78		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	71		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	98		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	84		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 111520014A	Sample number(s): 6300333									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111510010A	Sample number(s): 6300332-6300333									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	97	90	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111470006A	Sample number(s): 6300332-6300333									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111571026005A	Sample number(s): 6300332-6300333									
Antimony	0.0600	U	0.0600	0.200	mg/kg	111		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	100		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	104		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	97		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	105		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	103		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	93		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	98		81-112		
Batch number: 111571026005B	Sample number(s): 6300332-6300333									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111571026005C	Sample number(s): 6300332-6300333									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	108		78-122		
Batch number: 111571026005D	Sample number(s): 6300332-6300333									
Barium	0.108	U	0.108	0.400	mg/kg	100		81-111		
Batch number: 111575708002	Sample number(s): 6300332-6300333									
Aluminum	5.03	U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.81	J	6.13	20.0	mg/kg	107		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.17	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3	U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.38	J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	87		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111575711001	Sample number(s): 6300332-6300333									
Mercury	0.0028	U	0.0028	0.0987	mg/kg	96		88-123		
Batch number: 11153373202A	Sample number(s): 6300332-6300333									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11154373204A	Sample number(s): 6300332-6300333									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11159243201A	Sample number(s): 6300332-6300333									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11153039401A	Sample number(s): 6300332-6300333									
18a pH by 9045C						100		95-105		
Batch number: 11157162401B	Sample number(s): 6300332-6300333									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111521AA	Sample number(s): 6300332 UNSPK: P298873								
Acetone	97	93	15-210	11	30				
Benzene	104	103	55-143	8	30				
Bromobenzene	97	97	43-139	8	30				
Bromochloromethane	110	102	60-137	16	30				
Bromodichloromethane	99	98	53-136	9	30				
Bromoform	95	91	38-124	12	30				
Bromomethane	71	70	42-168	9	30				
2-Butanone	93	88	37-163	14	30				
n-Butylbenzene	95	96	30-146	7	30				
sec-Butylbenzene	96	96	33-157	8	30				
tert-Butylbenzene	97	97	41-152	7	30				
Carbon Tetrachloride	107	105	45-153	10	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	64	64	39-152	8	30				
2-Chloroethyl Vinyl Ether	82	79	32-139	12	30				
Chloroform	106	103	61-142	10	30				
Chloromethane	70	67	51-163	12	30				
2-Chlorotoluene	96	96	42-146	7	30				
4-Chlorotoluene	98	98	39-145	7	30				
1,2-Dibromo-3-chloropropane	94	90	30-139	12	30				
Dibromochloromethane	98	95	51-128	11	30				
1,2-Dibromoethane	100	98	54-129	9	30				
Dibromomethane	98	93	57-130	12	30				
1,2-Dichlorobenzene	99	97	36-133	10	30				
1,3-Dichlorobenzene	96	95	34-134	9	30				
1,4-Dichlorobenzene	97	95	35-136	9	30				
Dichlorodifluoromethane	63	60	26-151	12	30				
1,1-Dichloroethane	104	103	63-142	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloroethane	107	105	68-131	9	30				
1,1-Dichloroethene	111	108	61-149	10	30				
cis-1,2-Dichloroethene	102	100	60-136	10	30				
trans-1,2-Dichloroethene	100	101	59-142	6	30				
1,2-Dichloropropane	99	98	62-135	8	30				
1,3-Dichloropropane	101	99	58-129	10	30				
2,2-Dichloropropane	104	102	53-147	9	30				
1,1-Dichloropropene	105	104	54-145	8	30				
cis-1,3-Dichloropropene	93	92	51-131	9	30				
trans-1,3-Dichloropropene	93	92	49-129	9	30				
Ethylbenzene	101	101	44-141	7	30				
Freon 113	111	108	56-156	10	30				
Hexachlorobutadiene	82	79	10-155	11	30				
2-Hexanone	96	92	32-160	12	30				
Isopropylbenzene	101	102	38-144	7	30				
p-Isopropyltoluene	95	95	29-152	7	30				
Methyl Tertiary Butyl Ether	97	95	55-129	10	30				
4-Methyl-2-pentanone	94	89	46-139	13	30				
Methylene Chloride	103	99	61-141	11	30				
n-Propylbenzene	97	98	39-157	7	30				
Styrene	102	102	35-134	8	30				
1,1,1,2-Tetrachloroethane	102	100	52-130	9	30				
1,1,2,2-Tetrachloroethane	93	89	40-152	11	30				
Tetrachloroethene	103	103	42-149	7	30				
Toluene	103	103	50-146	8	30				
1,2,3-Trichlorobenzene	91	89	10-140	10	30				
1,2,4-Trichlorobenzene	84	82	10-136	10	30				
1,1,1-Trichloroethane	105	103	64-142	9	30				
1,1,2-Trichloroethane	99	97	54-139	9	30				
Trichloroethene	100	99	53-144	8	30				
Trichlorofluoromethane	93	88	47-163	12	30				
1,2,3-Trichloropropane	94	91	45-154	12	30				
1,2,4-Trimethylbenzene	95	95	37-149	7	30				
1,3,5-Trimethylbenzene	98	99	38-150	7	30				
Vinyl Chloride	74	72	50-154	11	30				
m+p-Xylene	104	104	44-137	8	30				
o-Xylene	100	100	42-137	7	30				
Batch number: E111531AA	Sample number(s): 6300332 UNSPK: P300336								
1,4-Dioxane	86	94	70-130	3	30				
Batch number: 11151SLD026	Sample number(s): 6300332-6300333 UNSPK: P298873								
Aniline	62	78	35-95	23	30				
Benzidine	19*	31*	35-141	50*	30				
Benzoic acid	60	95	10-173	45*	30				
Benzyl alcohol	84	96	67-115	13	30				
4-Bromophenyl-phenylether	79	92	67-129	15	30				
Carbazole	84	100	64-120	18	30				
4-Chloro-3-methylphenol	84	99	76-110	16	30				
4-Chloroaniline	47	60	23-95	25	30				
bis(2-Chloroethoxy)methane	81	92	75-104	13	30				
bis(2-Chloroethyl)ether	77	88	60-116	14	30				
bis(2-Chloroisopropyl)ether	76	90	55-142	17	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	57	69	50-141	19	30				
2-Chlorophenol	86	99	73-121	14	30				
4-Chlorophenyl-phenylether	80	99	80-109	21	30				
Dibenzofuran	82	98	71-112	17	30				
1,2-Dichlorobenzene	70	83	66-108	17	30				
1,3-Dichlorobenzene	69	82	63-109	17	30				
1,4-Dichlorobenzene	69*	81	70-100	15	30				
3,3'-Dichlorobenzidine	39	53	16-119	29	30				
2,4-Dichlorophenol	86	98	78-117	13	30				
2,4-Dimethylphenol	83	99	78-110	17	30				
3,5-Dimethylphenol	91	107	70-130	16	30				
4,6-Dinitro-2-methylphenol	64	83	24-116	25	30				
2,4-Dinitrophenol	46	79	20-143	52*	30				
2,4-Dinitrotoluene	83	100	73-113	19	30				
2,6-Dinitrotoluene	83	100	69-123	18	30				
1,2-Diphenylhydrazine	84	97	71-129	15	30				
bis(2-Ethylhexyl)phthalate	84	98	63-122	16	30				
Hexachlorobenzene	80	95	77-114	17	30				
Hexachlorobutadiene	74	88	62-120	18	30				
Hexachlorocyclopentadiene	69	84	10-153	19	30				
Hexachloroethane	65	77	57-109	16	30				
Isophorone	80	95	73-102	17	30				
2-Methylphenol	83	93	75-111	12	30				
4-Methylphenol	82	92	71-111	12	30				
2-Nitroaniline	84	102	67-125	20	30				
3-Nitroaniline	81	101	59-122	21	30				
4-Nitroaniline	63	80	52-112	24	30				
Nitrobenzene	78	93	72-106	17	30				
2-Nitrophenol	80	92	74-115	14	30				
4-Nitrophenol	68	88	54-113	27	30				
N-Nitroso-di-n-propylamine	77	92	60-116	17	30				
N-Nitrosodiphenylamine	81*	95	86-145	16	30				
Pentachlorophenol	76	92	28-127	19	30				
Phenol	78	88	58-126	12	30				
1,2,4-Trichlorobenzene	77	91	72-115	17	30				
2,4,5-Trichlorophenol	80	99	78-109	21	30				
2,4,6-Trichlorophenol	82	97	77-115	17	30				
Batch number: 11152SLH026	Sample number(s): 6300332-6300333 UNSPK: P298916								
Acenaphthene	88	85	63-105	4	30				
Acenaphthylene	81	82	67-114	1	30				
Anthracene	89	89	60-122	0	30				
Benzo(a)anthracene	86	91	59-128	5	30				
Benzo(a)pyrene	90	89	45-138	1	30				
Benzo(b)fluoranthene	95	91	43-155	4	30				
Benzo(g,h,i)perylene	63	75	33-141	17	30				
Benzo(k)fluoranthene	87	93	42-144	7	30				
Butylbenzylphthalate	130	136	57-173	5	30				
Di-n-butylphthalate	112	106	65-148	5	30				
Chrysene	92	90	48-134	2	30				
Dibenz(a,h)anthracene	75	87	22-133	16	30				
Diethylphthalate	89	88	70-136	1	30				
Dimethylphthalate	88	87	74-118	1	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	125	105	39-167	18	30				
Fluoranthene	98	92	26-166	6	30				
Fluorene	88	86	66-122	2	30				
Indeno(1,2,3-cd)pyrene	73	84	21-143	14	30				
1-Methylnaphthalene	100	90	72-123	11	30				
2-Methylnaphthalene	91	78	64-103	15	30				
Naphthalene	107*	78	61-102	31*	30				
N-Nitrosodimethylamine	83	78	48-113	7	30				
Di-n-octylphthalate	116	107	40-192	7	30				
Phenanthrene	94	82	12-165	12	30				
Pyrene	80	80	15-153	1	30				
Batch number: 111520014A	Sample number(s): 6300333 UNSPK: P296036								
6a Perchlorate EPA 6850	103	107	80-120	3	20				
Batch number: 111510010A	Sample number(s): 6300332-6300333 UNSPK: P298873								
PCB-1016	105	107	29-146	2	50				
PCB-1260	107	107	39-149	0	50				
Batch number: 111470006A	Sample number(s): 6300332-6300333 UNSPK: P300336								
Diethylene glycol	51*	54*	59-109	6	20				
Ethylene glycol	71	72	63-107	0	20				
Propylene glycol	77	76	63-107	1	20				
Batch number: 111571026005A	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916								
Antimony	39*	37*	75-125	4	20	0.246	0.475	63* (1)	20
Arsenic	115	117	75-125	1	20	5.41	7.88	37*	20
Beryllium	78	79	75-125	1	20	0.611	0.713	15	20
Cadmium	97	100	75-125	3	20	0.327	0.420	25* (1)	20
Chromium	91	94	75-125	1	20	24.9	23.3	7	20
Cobalt	94	94	75-125	0	20	9.06	10.3	13	20
Copper	91	94	75-125	1	20	15.7	17.8	13	20
Lead	92 (2)	92	75-125	0	20	11.7	15.0	25*	20
Nickel	99	99	75-125	0	20	17.6	21.0	17	20
Silver	98	100	75-125	2	20	0.0390 J	0.0312 J	22* (1)	20
Thallium	95	85	75-125	6	20	0.339	0.298	13 (1)	20
Vanadium	104 (2)	116 (2)	75-125	2	20	46.6	48.4	4	20
Zinc	86 (2)	87 (2)	75-125	0	20	68.8	76.5	11	20
Batch number: 111571026005B	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916								
Selenium	93	92	75-125	1	20	0.267 J	0.473	56* (1)	20
Batch number: 111571026005C	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916								
Molybdenum	95	96	75-125	2	20	0.408	1.16	96* (1)	20
Batch number: 111571026005D	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916								
Barium	92 (2)	107 (2)	75-125	1	20	99.4	93.5	6	20
Batch number: 111575708002	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916								
Aluminum	4015 (2)	3538 (2)	75-125	3	20	23,300	24,100	3	20
Boron	104	100	84-115	4	20	18.5	19.0	2 (1)	20
Calcium	-26 (2)	-94 (2)	75-125	1	20	29,100	25,800	12	20

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Iron	-803 (2)	166 (2)	75-125	3	20	28,600		28,800		1	20
Lithium	109	106	82-114	2	20	19.6		20.9		6	20
Magnesium	506 (2)	411 (2)	75-125	2	20	6,780		6,840		1	20
Manganese	88 (2)	50 (2)	75-125	5	20	372		362		3	20
Phosphorus	96 (2)	87 (2)	75-125	1	20	587		582		1	20
Potassium	183 (2)	164 (2)	75-125	2	20	6,230		6,280		1	20
Sodium	101	99	75-125	2	20	102		98.9		3 (1)	20
Strontium	99	93	75-115	4	20	62.2		58.1		7	20
Tin	85	82	80-110	3	20	2.39	J	2.25	J	6 (1)	20
Titanium	464 (2)	429 (2)	75-125	2	20	1,020		1,060		4	20
Zirconium	77	78	75-125	1	20	1.80	J	2.45	J	31* (1)	20
Batch number: 111575711001	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916										
Mercury	105	97	65-135	7	20	0.0139	J	0.0070	J	66* (1)	20
Batch number: 11153373202A	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916										
11a Anions by 300.0 - Fluoride	75*		80-120			0.80	U	0.98	J	200* (1)	20
Batch number: 11154373204A	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916										
7a Perchlorate EPA 314.0	111		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11159243201A	Sample number(s): 6300332-6300333 UNSPK: P298916 BKG: P298916										
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11153039401A	Sample number(s): 6300332-6300333 BKG: P298916										
18a pH by 9045C						8.09		8.08		0	3
Batch number: 11157162401B	Sample number(s): 6300332-6300333 BKG: P298916										
Moisture Content by 160.3						15.5		15.3		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111521AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6300332	102	98	100	91
Blank	104	100	97	94
LCS	105	106	100	103
MS	102	98	103	100
MSD	101	98	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111531AA

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Surrogate Quality Control

	Toluene-d8
6300332	95
Blank	95
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11151SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6300332	84	85	86	78	80	89
6300333	85	86	85	80	79	93
Blank	85	89	85	82	83	81
LCS	92	94	97	85	87	86
MS	85	86	83	79	77	77
MSD	91	93	98	86	87	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11152SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6300332	86	77	95
6300333	85	78	103
Blank	84	81	92
LCS	87	80	94
MS	102	82	92
MSD	94	82	93
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111510010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6300332	127	107
6300333	112	104
Blank	114	106
LCS	121	108
LCSD	117	112
MS	116	106
MSD	120	107
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111470006A

	Tetramethylene glycol
6300332	91
6300333	91

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248956
Reported: 06/17/11 at 12:57 PM

Surrogate Quality Control

Blank	90
LCS	97
MS	90
MSD	89
Limits:	29-137

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Acct# 13013 LL# 6300532-33 GR# 124856

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-001-SA8N-SB-4.5	5.26.11	1100	SOIL	NONE	4-Encores										X	X											
SL-001-SA8N-SB-4.0-5.0	5.26.11	1105	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-001-SA8N-SB-9.0-10.0	5.26.11	1135	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
SL-002-SA8N-SB-4.5MS	5.26.11	1420	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-002-SA8N-SB-4.0-5.0MS	5.26.11	1420	SOIL	NONE	9-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-002-SA8N-SB-9.0-10.0	5.26.11	1450	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-4.5	5.26.11	0910	SOIL	NONE	4-Encores										X	X											
SL-008-SA8N-SB-4.0-5.0	5.26.11	0915	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-9.0-5100	5.26.11	0940	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	4-Encores										X	X											
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-052611	5.26.11	0800	WATER	NONE	3-40mL Vials										X	X											
Relinquished by: (Signature)	Date/Time 05/26/2011 / 1700		Received for Laboratory by: (Signature) 5/27/11 0915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3340 1787,1798,1802,1813,1824																								

Acct# 13013 LL#163C0332-33 GE#124956

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	$VOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-SS Sleeve			X	X																	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-SS Sleeve			X	X																	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	1-SS Sleeve			X	X																	
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-SS Sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	05/26/2011 / 1700		5/27/11 0915
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 1787,1798,1802,1813,1824	

Laboratory:
Lancaster Laboratories, Inc.

Acct# 13013 LL# 6500332-33 GL# 124595C

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X			X	X		X			
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-500 mL poly		X				X	X	X															
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HNO3	1-500 mL poly	X																						
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NaOH	1-500 mL poly																			X				
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-250 mL jar																X							
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HCL	2-40 mL vials																						X	
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	4-40 mL vials															X						X		
EB11-SA6N-SB-052611	5.26.11	1300	WATER	NONE	5-1 liter ambers			X	X	X																		
EB11-SA6N-SB-052611	5.26.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X															
EB11-SA6N-SB-052611	5.26.11	1300	WATER	HNO3	1-500 mL poly	X																						
EB11-SA6N-SB-052611	5.26.11	1300	WATER	HNO3	6-40 mL vials											X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 1787,1798,1802,1813,1824	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/27/2011
Group Number: 1248957
SDG: DX091
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8N-SB-4.0-5.0 Soil	6300334
SL-001-SA8N-SB-9.0-10.0 Soil	6300335

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300334
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-014 SDG#: DX091-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300334
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-014 SDG#: DX091-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0241 U	0.0241	1.18	1
11031	12378-PeCDD	40321-76-4	0.0469 JBQ	0.0295	5.89	1
11031	123478-HxCDD	39227-28-6	0.0314 JBQ	0.0233	5.89	1
11031	123678-HxCDD	57653-85-7	0.0529 JB	0.0229	5.89	1
11031	123789-HxCDD	19408-74-3	0.0557 JBQ	0.0227	5.89	1
11031	1234678-HpCDD	35822-46-9	0.618 JB	0.0335	5.89	1
11031	OCDD	3268-87-9	2.89 JB	0.0327	11.8	1
11031	2378-TCDF	51207-31-9	0.0301 U	0.0301	1.18	1
11031	12378-PeCDF	57117-41-6	0.0356 JBQ	0.0143	5.89	1
11031	23478-PeCDF	57117-31-4	0.0627 J	0.0169	5.89	1
11031	123478-HxCDF	70648-26-9	0.0339 JBQ	0.0243	5.89	1
11031	123678-HxCDF	57117-44-9	0.0378 JBQ	0.0172	5.89	1
11031	123789-HxCDF	72918-21-9	0.0314 JBQ	0.0249	5.89	1
11031	234678-HxCDF	60851-34-5	0.0850 JB	0.0153	5.89	1
11031	1234678-HpCDF	67562-39-4	0.150 JBQ	0.0113	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0495 JBQ	0.0275	5.89	1
11031	OCDF	39001-02-0	0.419 JB	0.0770	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	36	26 - 138
13C12-OCDF	26	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300334
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-014 SDG#: DX091-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-4.0-5.0

LLI Sample # SW 6300334
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:05

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-014 SDG#: DX091-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 21:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300335
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-019 SDG#: DX091-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300335
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-019 SDG#: DX091-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0268 JB	0.0244	1.12	1
11031	12378-PeCDD	40321-76-4	0.0268 U	0.0268	5.59	1
11031	123478-HxCDD	39227-28-6	0.0404 JBQ	0.0218	5.59	1
11031	123678-HxCDD	57653-85-7	0.0228 U	0.0228	5.59	1
11031	123789-HxCDD	19408-74-3	0.0226 JBQ	0.0214	5.59	1
11031	1234678-HpCDD	35822-46-9	0.329 JBQ	0.0317	5.59	1
11031	OCDD	3268-87-9	1.20 JB	0.0282	11.2	1
11031	2378-TCDF	51207-31-9	0.0276 U	0.0276	1.12	1
11031	12378-PeCDF	57117-41-6	0.0244 JB	0.0152	5.59	1
11031	23478-PeCDF	57117-31-4	0.0491 JQ	0.0162	5.59	1
11031	123478-HxCDF	70648-26-9	0.0189 U	0.0189	5.59	1
11031	123678-HxCDF	57117-44-9	0.0321 JBQ	0.0137	5.59	1
11031	123789-HxCDF	72918-21-9	0.0206 JBQ	0.0204	5.59	1
11031	234678-HxCDF	60851-34-5	0.0729 JB	0.0150	5.59	1
11031	1234678-HpCDF	67562-39-4	0.0984 JBQ	0.00832	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0414 JBQ	0.0197	5.59	1
11031	OCDF	39001-02-0	0.283 JB	0.0577	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	113	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300335
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-019 SDG#: DX091-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SB-9.0-10.0

LLI Sample # SW 6300335
LLI Group # 1248957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/17/2011 09:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-019 SDG#: DX091-08*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 22:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248957
Reported: 06/17/11 at 09:58 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11157162401B	Sample number(s): 6300334-6300335								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11159002	Sample number(s): 6300334-6300335								
2378-TCDD	0.0249 J	0.0148	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0516 J	0.0176	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0371 J	0.0140	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0439 J	0.0148	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0360 J	0.0137	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200 J	0.0207	5.00	ng/kg	102		70-140		
OCDD	0.698 J	0.0185	10.0	ng/kg	99		78-144		
2378-TCDF	0.0173 U	0.0173	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0331 J	0.0123	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0136 U	0.0136	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0750 J	0.0171	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0456 J	0.0121	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0768 J	0.0158	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0650 J	0.0115	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.156 J	0.00740	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.109 J	0.0149	5.00	ng/kg	98		78-138		
OCDF	0.500 J	0.0371	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11157162401B	Sample number(s): 6300334-6300335					BKG: P298916			
Moisture Content by 160.3						15.5	15.3	1	20
Batch number: 11159002	Sample number(s): 6300334-6300335					UNSPK: P298925			
2378-TCDD	93	93	67-158	0	25				
12378-PeCDD	98	93	70-142	4	25				
123478-HxCDD	96	95	70-164	0	25				
123678-HxCDD	100	98	76-134	1	25				
123789-HxCDD	98	97	64-162	0	25				
1234678-HpCDD	97	97	70-140	1	25				
OCDD	90	94	78-144	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248957
Reported: 06/17/11 at 09:58 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	96	100	75-158	5	25				
12378-PeCDF	96	96	80-134	1	25				
23478-PeCDF	97	97	68-160	0	25				
123478-HxCDF	98	93	72-134	4	25				
123678-HxCDF	96	98	84-130	3	25				
123789-HxCDF	98	96	78-130	2	25				
234678-HxCDF	98	96	70-156	1	25				
1234678-HpCDF	95	93	82-122	1	25				
1234789-HpCDF	97	96	78-138	0	25				
OCDF	92	97	63-170	6	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11159002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300334	72	66	42	58	64	47
6300335	82	77	61	80	76	64
Blank	81	65	54	73	75	63
MS	74	71	67	78	74	59
MSD	74	70	66	73	69	59
OPR	65	65	68	80	75	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300334	73	36	26	92	71	67
6300335	100	50	37	113	85	80
Blank	93	53	43	114	82	83
MS	84	48	32	87	73	74
MSD	80	46	33	92	76	72
OPR	93	57	42	86	70	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300334	68	69	61	52	63	82
6300335	83	87	80	67	75	93
Blank	82	87	79	68	70	78
MS	74	75	64	51	74	85
MSD	72	72	62	48	73	82
OPR	79	81	72	59	66	72

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248957
Reported: 06/17/11 at 09:58 AM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct# 13013 LL# 636033-35 GL# 124957

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA8N-SB-4.5	5.26.11	1100	SOIL	NONE	4-Encores										X	X											
SL-001-SA8N-SB-4.0-5.0	5.26.11	1105	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-001-SA8N-SB-9.0-10.0	5.26.11	1135	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
SL-002-SA8N-SB-4.5MS	5.26.11	1420	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-002-SA8N-SB-4.0-5.0MS	5.26.11	1420	SOIL	NONE	9-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-002-SA8N-SB-9.0-10.0	5.26.11	1450	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-4.5	5.26.11	0910	SOIL	NONE	4-Encores										X	X											
SL-008-SA8N-SB-4.0-5.0	5.26.11	0915	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-9.0-5100	5.26.11	0940	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
DUP06-SA8N-EGC-052611	5.26.11	1445	SOIL	NONE	4-Encores										X	X											
DUP06-SA8N-EGC-052611	5.26.11	1445	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-052611	5.26.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 1787,1798,1802,1813,1824	

Acct# 13013 LL# 630034-35 GW# 124557

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
.$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-SS Sleeve			X	X																	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-SS Sleeve			X	X																	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	1-SS Sleeve			X	X																	
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-SS Sleeve			X	X																	

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	05/26/2011 / 1700		5/27/11 0915
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 1787,1798,1802,1813,1824	

Laboratory:
Lancaster Laboratories, Inc.

Acct# 13013 LL76500334-35 GK # 1249957

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X			X	X		X			
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-500 mL poly		X				X	X	X															
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HNO3	1-500 mL poly	X																						
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NaOH	1-500 mL poly																			X				
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-250 mL jar																X							
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HCL	2-40 mL vials																						X	
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	4-40 mL vials															X						X		
EB11-SA6N-SS-052611	5.26.11	1300	WATER	NONE	9-1 liter ambers			X	X	X					X													
EB11-SA6N-SS-052611	5.26.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X															
EB11-SA6N-SS-052611	5.26.11	1300	WATER	HNO3	1-500 mL poly	X																						
EB11-SA6N-SS-052611	5.26.11	1300	WATER	HNO3	16-40ml vials											X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	05/26/2011 / 1700		5/27/11 0915
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 1787,1798,1802,1813,1824	

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/27/2011
Group Number: 1248960
SDG: DX093
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA8N-SB-4.0-5.0 Soil	6300364
SL-002-SA8N-SB-4.0-5.0MS Soil	6300365
SL-002-SA8N-SB-4.0-5.0MSD Soil	6300366
SL-002-SA8N-SB-9.0-10.0 Soil	6300367
SL-008-SA8N-SB-4.0-5.0 Soil	6300368
SL-008-SA8N-SB-9.0-10.0 Soil	6300369
DUP09-SA8N-QC-052611 Soil	6300370
SL-164-SA5DN-SS-0.0-0.5 Soil	6300371
SL-165-SA5DN-SS-0.0-0.5 Soil	6300372
SL-170-SA5DN-SS-0.0-0.5 Soil	6300373
SL-171-SA5DN-SS-0.0-0.5 Soil	6300374
SL-172-SA5DN-SS-0.0-0.5 Soil	6300375
SL-173-SA5DN-SS-0.0-0.5 Soil	6300376
SL-174-SA5DN-SS-0.0-0.5 Soil	6300377
SL-175-SA5DN-SS-0.0-0.5 Soil	6300378
SL-176-SA5DN-SS-0.0-0.5 Soil	6300379
SL-179-SA5DN-SS-0.0-0.5 Soil	6300380
SL-180-SA5DN-SS-0.0-0.5 Soil	6300381
SL-181-SA5DN-SS-0.0-0.5 Soil	6300382
SL-182-SA5DN-SS-0.0-0.5 Soil	6300383
SL-183-SA5DN-SS-0.0-0.5 Soil	6300384
SL-184-SA5DN-SS-0.0-0.5 Soil	6300385
EB09-SA5DN-SS-052611 Water	6300386
EB11-SA8N-SB-052611 Water	6300387

Lancaster Laboratories

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342 JBQ	0.0272	1.17	1
11031	12378-PeCDD	40321-76-4	0.0398 JBQ	0.0294	5.87	1
11031	123478-HxCDD	39227-28-6	0.0232 JBQ	0.0188	5.87	1
11031	123678-HxCDD	57653-85-7	0.0295 JBQ	0.0204	5.87	1
11031	123789-HxCDD	19408-74-3	0.0642 JB	0.0200	5.87	1
11031	1234678-HpCDD	35822-46-9	0.519 JB	0.0305	5.87	1
11031	OCDD	3268-87-9	1.49 JB	0.0299	11.7	1
11031	2378-TCDF	51207-31-9	0.0368 JQ	0.0320	1.17	1
11031	12378-PeCDF	57117-41-6	0.0511 JB	0.0158	5.87	1
11031	23478-PeCDF	57117-31-4	0.0831 JB	0.0161	5.87	1
11031	123478-HxCDF	70648-26-9	0.0223 JBQ	0.0149	5.87	1
11031	123678-HxCDF	57117-44-9	0.0257 JBQ	0.0123	5.87	1
11031	123789-HxCDF	72918-21-9	0.0345 JB	0.0202	5.87	1
11031	234678-HxCDF	60851-34-5	0.0277 JB	0.0142	5.87	1
11031	1234678-HpCDF	67562-39-4	0.0465 JB	0.00800	5.87	1
11031	1234789-HpCDF	55673-89-7	0.0386 JBQ	0.0173	5.87	1
11031	OCDF	39001-02-0	0.131 JB	0.0479	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 14:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/09/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0	B	0.0486	1.18	1
11031	12378-PeCDD	40321-76-4	110	B	0.0632	5.90	1
11031	123478-HxCDD	39227-28-6	115	B	0.0560	5.90	1
11031	123678-HxCDD	57653-85-7	116	B	0.0596	5.90	1
11031	123789-HxCDD	19408-74-3	114	B	0.0565	5.90	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0744	5.90	1
11031	OCDD	3268-87-9	223	B	0.0741	11.8	1
11031	2378-TCDF	51207-31-9	22.5		0.0713	1.18	1
11031	12378-PeCDF	57117-41-6	113	B	0.0389	5.90	1
11031	23478-PeCDF	57117-31-4	109	B	0.0412	5.90	1
11031	123478-HxCDF	70648-26-9	110	B	0.0918	5.90	1
11031	123678-HxCDF	57117-44-9	108	B	0.0726	5.90	1
11031	123789-HxCDF	72918-21-9	116	B	0.121	5.90	1
11031	234678-HxCDF	60851-34-5	112	B	0.0833	5.90	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0528	5.90	1
11031	1234789-HpCDF	55673-89-7	116	B	0.122	5.90	1
11031	OCDF	39001-02-0	222	B	0.103	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	33	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 15:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0399	1.19	1
11031	12378-PeCDD	40321-76-4	108	B	0.0491	5.93	1
11031	123478-HxCDD	39227-28-6	112	B	0.0460	5.93	1
11031	123678-HxCDD	57653-85-7	117	B	0.0507	5.93	1
11031	123789-HxCDD	19408-74-3	111	B	0.0480	5.93	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0676	5.93	1
11031	OCDD	3268-87-9	221	B	0.0689	11.9	1
11031	2378-TCDF	51207-31-9	22.9		0.0562	1.19	1
11031	12378-PeCDF	57117-41-6	110	B	0.0346	5.93	1
11031	23478-PeCDF	57117-31-4	114	B	0.0366	5.93	1
11031	123478-HxCDF	70648-26-9	112	B	0.0841	5.93	1
11031	123678-HxCDF	57117-44-9	110	B	0.0687	5.93	1
11031	123789-HxCDF	72918-21-9	110	B	0.104	5.93	1
11031	234678-HxCDF	60851-34-5	113	B	0.0755	5.93	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0464	5.93	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0978	5.93	1
11031	OCDF	39001-02-0	231	B	0.105	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0355 JBQ	0.0212	1.17	1
11031	12378-PeCDD	40321-76-4	0.0895 JB	0.0179	5.84	1
11031	123478-HxCDD	39227-28-6	0.122 JBQ	0.0212	5.84	1
11031	123678-HxCDD	57653-85-7	0.102 JBQ	0.0221	5.84	1
11031	123789-HxCDD	19408-74-3	0.154 JBQ	0.0210	5.84	1
11031	1234678-HpCDD	35822-46-9	0.520 JB	0.0282	5.84	1
11031	OCDD	3268-87-9	2.00 JBQ	0.0474	11.7	1
11031	2378-TCDF	51207-31-9	0.0223 JQ	0.0212	1.17	1
11031	12378-PeCDF	57117-41-6	0.0849 JB	0.0110	5.84	1
11031	23478-PeCDF	57117-31-4	0.111 JBQ	0.0117	5.84	1
11031	123478-HxCDF	70648-26-9	0.233 JB	0.0434	5.84	1
11031	123678-HxCDF	57117-44-9	0.172 JBQ	0.0361	5.84	1
11031	123789-HxCDF	72918-21-9	0.204 JB	0.0216	5.84	1
11031	234678-HxCDF	60851-34-5	0.182 JB	0.0165	5.84	1
11031	1234678-HpCDF	67562-39-4	0.232 JB	0.0196	5.84	1
11031	1234789-HpCDF	55673-89-7	0.257 JB	0.0199	5.84	1
11031	OCDF	39001-02-0	0.578 JB	0.0443	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/10/2011 23:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.17	1
11031	12378-PeCDD	40321-76-4	0.188	JB	0.0325	5.85	1
11031	123478-HxCDD	39227-28-6	0.237	JBQ	0.0323	5.85	1
11031	123678-HxCDD	57653-85-7	0.252	JBQ	0.0328	5.85	1
11031	123789-HxCDD	19408-74-3	0.355	JBQ	0.0334	5.85	1
11031	1234678-HpCDD	35822-46-9	1.07	JB	0.0367	5.85	1
11031	OCDD	3268-87-9	3.93	JB	0.0376	11.7	1
11031	2378-TCDF	51207-31-9	0.0719	JQ	0.0434	1.17	1
11031	12378-PeCDF	57117-41-6	0.225	JB	0.0219	5.85	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0213	5.85	1
11031	123478-HxCDF	70648-26-9	0.313	JB	0.0271	5.85	1
11031	123678-HxCDF	57117-44-9	0.214	JBQ	0.0235	5.85	1
11031	123789-HxCDF	72918-21-9	0.321	JB	0.0367	5.85	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0266	5.85	1
11031	1234678-HpCDF	67562-39-4	0.438	JB	0.0125	5.85	1
11031	1234789-HpCDF	55673-89-7	0.265	JBQ	0.0266	5.85	1
11031	OCDF	39001-02-0	1.04	JB	0.0617	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 17:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265 U	0.0265	1.14	1
11031	12378-PeCDD	40321-76-4	0.0572 JB	0.0259	5.69	1
11031	123478-HxCDD	39227-28-6	0.0339 JBQ	0.0185	5.69	1
11031	123678-HxCDD	57653-85-7	0.0596 JBQ	0.0199	5.69	1
11031	123789-HxCDD	19408-74-3	0.0750 JBQ	0.0196	5.69	1
11031	1234678-HpCDD	35822-46-9	0.600 JB	0.0297	5.69	1
11031	OCDD	3268-87-9	2.65 JB	0.0276	11.4	1
11031	2378-TCDF	51207-31-9	0.0283 U	0.0283	1.14	1
11031	12378-PeCDF	57117-41-6	0.0487 JB	0.0158	5.69	1
11031	23478-PeCDF	57117-31-4	0.0862 JB	0.0156	5.69	1
11031	123478-HxCDF	70648-26-9	0.0378 JB	0.0146	5.69	1
11031	123678-HxCDF	57117-44-9	0.0489 JB	0.0124	5.69	1
11031	123789-HxCDF	72918-21-9	0.0456 JBQ	0.0179	5.69	1
11031	234678-HxCDF	60851-34-5	0.0399 JBQ	0.0136	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0907 JB	0.00818	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0363 JB	0.0167	5.69	1
11031	OCDF	39001-02-0	0.302 JB	0.0494	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 17:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0221 U	0.0221	1.17	1
11031	12378-PeCDD	40321-76-4	0.0255 JBQ	0.0247	5.86	1
11031	123478-HxCDD	39227-28-6	0.0166 U	0.0166	5.86	1
11031	123678-HxCDD	57653-85-7	0.0196 JBQ	0.0174	5.86	1
11031	123789-HxCDD	19408-74-3	0.0217 JBQ	0.0156	5.86	1
11031	1234678-HpCDD	35822-46-9	0.193 JBQ	0.0294	5.86	1
11031	OCDD	3268-87-9	0.568 JBQ	0.0359	11.7	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.17	1
11031	12378-PeCDF	57117-41-6	0.0318 JBQ	0.0112	5.86	1
11031	23478-PeCDF	57117-31-4	0.0611 JBQ	0.0111	5.86	1
11031	123478-HxCDF	70648-26-9	0.0210 JB	0.0192	5.86	1
11031	123678-HxCDF	57117-44-9	0.0253 JB	0.0158	5.86	1
11031	123789-HxCDF	72918-21-9	0.0377 JBQ	0.0155	5.86	1
11031	234678-HxCDF	60851-34-5	0.0688 JBQ	0.0129	5.86	1
11031	1234678-HpCDF	67562-39-4	0.128 JBQ	0.0133	5.86	1
11031	1234789-HpCDF	55673-89-7	0.0500 JBQ	0.0192	5.86	1
11031	OCDF	39001-02-0	0.173 JBQ	0.0424	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 02:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0544	JBQ	0.0288	1.08	1
11031	12378-PeCDD	40321-76-4	0.197	JBQ	0.0416	5.42	1
11031	123478-HxCDD	39227-28-6	0.191	JB	0.0392	5.42	1
11031	123678-HxCDD	57653-85-7	0.881	JB	0.0409	5.42	1
11031	123789-HxCDD	19408-74-3	0.854	JB	0.0408	5.42	1
11031	1234678-HpCDD	35822-46-9	11.7	B	0.0549	5.42	1
11031	OCDD	3268-87-9	138	B	0.0573	10.8	1
11031	2378-TCDF	51207-31-9	0.386	JQ	0.0735	1.08	1
11031	12378-PeCDF	57117-41-6	0.531	JB	0.0359	5.42	1
11031	23478-PeCDF	57117-31-4	0.804	JB	0.0376	5.42	1
11031	123478-HxCDF	70648-26-9	0.494	JB	0.0358	5.42	1
11031	123678-HxCDF	57117-44-9	0.261	JB	0.0316	5.42	1
11031	123789-HxCDF	72918-21-9	0.605	JB	0.0498	5.42	1
11031	234678-HxCDF	60851-34-5	0.419	JBQ	0.0342	5.42	1
11031	1234678-HpCDF	67562-39-4	1.94	JB	0.0181	5.42	1
11031	1234789-HpCDF	55673-89-7	0.215	JB	0.0329	5.42	1
11031	OCDF	39001-02-0	5.29	JB	0.0486	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-164-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 18:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	JB	0.0261	1.07	1
11031	12378-PeCDD	40321-76-4	0.345	JB	0.0447	5.33	1
11031	123478-HxCDD	39227-28-6	0.622	JB	0.0524	5.33	1
11031	123678-HxCDD	57653-85-7	2.35	JB	0.0565	5.33	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0526	5.33	1
11031	1234678-HpCDD	35822-46-9	74.4	B	0.102	5.33	1
11031	OCDD	3268-87-9	834	B	0.107	10.7	1
11031	2378-TCDF	51207-31-9	0.524	J	0.0830	1.07	1
11031	12378-PeCDF	57117-41-6	1.86	JB	0.0446	5.33	1
11031	23478-PeCDF	57117-31-4	0.749	JB	0.0440	5.33	1
11031	123478-HxCDF	70648-26-9	0.617	JB	0.0502	5.33	1
11031	123678-HxCDF	57117-44-9	0.631	JB	0.0484	5.33	1
11031	123789-HxCDF	72918-21-9	0.322	JB	0.0571	5.33	1
11031	234678-HxCDF	60851-34-5	0.753	JB	0.0467	5.33	1
11031	1234678-HpCDF	67562-39-4	23.2	B	0.0485	5.33	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0714	5.33	1
11031	OCDF	39001-02-0	96.7	B	0.0578	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 19:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-170-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-170-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0480	JBQ	0.0160	1.00	1
11031	12378-PeCDD	40321-76-4	0.273	JB	0.0215	5.00	1
11031	123478-HxCDD	39227-28-6	0.140	JB	0.0294	5.00	1
11031	123678-HxCDD	57653-85-7	0.286	JB	0.0310	5.00	1
11031	123789-HxCDD	19408-74-3	0.206	JB	0.0297	5.00	1
11031	1234678-HpCDD	35822-46-9	4.31	JB	0.0633	5.00	1
11031	OCDD	3268-87-9	79.2	B	0.0587	10.0	1
11031	2378-TCDF	51207-31-9	0.0809	J	0.0287	1.00	1
11031	12378-PeCDF	57117-41-6	0.287	JB	0.0179	5.00	1
11031	23478-PeCDF	57117-31-4	0.336	JBQ	0.0183	5.00	1
11031	123478-HxCDF	70648-26-9	0.314	JBQ	0.0276	5.00	1
11031	123678-HxCDF	57117-44-9	0.229	JB	0.0249	5.00	1
11031	123789-HxCDF	72918-21-9	0.204	JBQ	0.0295	5.00	1
11031	234678-HxCDF	60851-34-5	0.214	JBQ	0.0247	5.00	1
11031	1234678-HpCDF	67562-39-4	0.625	JB	0.0238	5.00	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0369	5.00	1
11031	OCDF	39001-02-0	2.27	JB	0.0406	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 07:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.220	JBQ	0.0216	1.05	1
11031	12378-PeCDD	40321-76-4	1.88	JB	0.0502	5.24	1
11031	123478-HxCDD	39227-28-6	1.74	JB	0.107	5.24	1
11031	123678-HxCDD	57653-85-7	5.35	B	0.112	5.24	1
11031	123789-HxCDD	19408-74-3	3.49	JB	0.105	5.24	1
11031	1234678-HpCDD	35822-46-9	58.7	B	0.118	5.24	1
11031	OCDD	3268-87-9	363	B	0.0926	10.5	1
11031	2378-TCDF	51207-31-9	0.225	JQ	0.0481	1.05	1
11031	12378-PeCDF	57117-41-6	0.324	JB	0.0348	5.24	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0336	5.24	1
11031	123478-HxCDF	70648-26-9	0.783	JBQ	0.0718	5.24	1
11031	123678-HxCDF	57117-44-9	0.729	JB	0.0654	5.24	1
11031	123789-HxCDF	72918-21-9	0.0556	U	0.0556	5.24	1
11031	234678-HxCDF	60851-34-5	0.975	JB	0.0480	5.24	1
11031	1234678-HpCDF	67562-39-4	5.57	B	0.0514	5.24	1
11031	1234789-HpCDF	55673-89-7	0.421	JB	0.0531	5.24	1
11031	OCDF	39001-02-0	10.5	B	0.0449	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-171-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 08:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0650	JBQ	0.0218	1.06	1
11031	12378-PeCDD	40321-76-4	0.172	JBQ	0.0298	5.31	1
11031	123478-HxCDD	39227-28-6	0.119	JB	0.0547	5.31	1
11031	123678-HxCDD	57653-85-7	0.430	JB	0.0556	5.31	1
11031	123789-HxCDD	19408-74-3	0.376	JBQ	0.0554	5.31	1
11031	1234678-HpCDD	35822-46-9	8.85	B	0.0727	5.31	1
11031	OCDD	3268-87-9	100	B	0.0700	10.6	1
11031	2378-TCDF	51207-31-9	0.0468	J	0.0304	1.06	1
11031	12378-PeCDF	57117-41-6	0.0626	JBQ	0.0230	5.31	1
11031	23478-PeCDF	57117-31-4	0.196	JB	0.0230	5.31	1
11031	123478-HxCDF	70648-26-9	0.0679	JBQ	0.0357	5.31	1
11031	123678-HxCDF	57117-44-9	0.110	JB	0.0326	5.31	1
11031	123789-HxCDF	72918-21-9	0.203	JB	0.0361	5.31	1
11031	234678-HxCDF	60851-34-5	0.141	JBQ	0.0312	5.31	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0310	5.31	1
11031	1234789-HpCDF	55673-89-7	0.136	JBQ	0.0399	5.31	1
11031	OCDF	39001-02-0	2.65	JB	0.0518	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 09:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0375	JBQ	0.0168	1.05	1
11031	12378-PeCDD	40321-76-4	0.230	JB	0.0324	5.26	1
11031	123478-HxCDD	39227-28-6	0.460	JB	0.0857	5.26	1
11031	123678-HxCDD	57653-85-7	1.80	JB	0.0934	5.26	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0770	5.26	1
11031	1234678-HpCDD	35822-46-9	36.0	B	0.101	5.26	1
11031	OCDD	3268-87-9	340	B	0.0920	10.5	1
11031	2378-TCDF	51207-31-9	0.380	J	0.0639	1.05	1
11031	12378-PeCDF	57117-41-6	0.177	JB	0.0362	5.26	1
11031	23478-PeCDF	57117-31-4	0.898	JB	0.0351	5.26	1
11031	123478-HxCDF	70648-26-9	0.480	JBQ	0.0917	5.26	1
11031	123678-HxCDF	57117-44-9	0.676	JB	0.0910	5.26	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0340	5.26	1
11031	234678-HxCDF	60851-34-5	0.665	JB	0.0318	5.26	1
11031	1234678-HpCDF	67562-39-4	5.47	B	0.0713	5.26	1
11031	1234789-HpCDF	55673-89-7	0.403	JB	0.0437	5.26	1
11031	OCDF	39001-02-0	15.6	B	0.0409	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	26	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	34	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-173-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 10:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JBQ	0.0263	1.02	1
11031	12378-PeCDD	40321-76-4	0.291	JB	0.0376	5.10	1
11031	123478-HxCDD	39227-28-6	0.288	JB	0.0410	5.10	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0405	5.10	1
11031	123789-HxCDD	19408-74-3	0.646	JB	0.0421	5.10	1
11031	1234678-HpCDD	35822-46-9	21.9	B	0.0485	5.10	1
11031	OCDD	3268-87-9	207	B	0.0353	10.2	1
11031	2378-TCDF	51207-31-9	0.181	J	0.0469	1.02	1
11031	12378-PeCDF	57117-41-6	0.465	JB	0.0238	5.10	1
11031	23478-PeCDF	57117-31-4	0.407	JB	0.0221	5.10	1
11031	123478-HxCDF	70648-26-9	0.408	JB	0.0267	5.10	1
11031	123678-HxCDF	57117-44-9	0.311	JB	0.0251	5.10	1
11031	123789-HxCDF	72918-21-9	0.203	JB	0.0247	5.10	1
11031	234678-HxCDF	60851-34-5	0.376	JB	0.0239	5.10	1
11031	1234678-HpCDF	67562-39-4	3.48	JB	0.0184	5.10	1
11031	1234789-HpCDF	55673-89-7	0.396	JB	0.0250	5.10	1
11031	OCDF	39001-02-0	8.25	JB	0.0178	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	105	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	95	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/17/2011 08:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0863	JBQ	0.0266	1.04	1
11031	12378-PeCDD	40321-76-4	1.06	JB	0.0811	5.21	1
11031	123478-HxCDD	39227-28-6	1.80	JBQ	0.109	5.21	1
11031	123678-HxCDD	57653-85-7	15.3	B	0.116	5.21	1
11031	123789-HxCDD	19408-74-3	4.34	JB	0.0990	5.21	1
11031	1234678-HpCDD	35822-46-9	388	B	0.253	5.21	1
11031	OCDD	3268-87-9	2,980	B	0.196	10.4	1
11031	2378-TCDF	51207-31-9	0.146	J	0.0351	1.04	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0249	5.21	1
11031	23478-PeCDF	57117-31-4	0.528	JB	0.0246	5.21	1
11031	123478-HxCDF	70648-26-9	1.53	JB	0.0950	5.21	1
11031	123678-HxCDF	57117-44-9	1.65	JB	0.0836	5.21	1
11031	123789-HxCDF	72918-21-9	0.464	JB	0.0754	5.21	1
11031	234678-HxCDF	60851-34-5	2.76	JB	0.0643	5.21	1
11031	1234678-HpCDF	67562-39-4	56.8	B	0.0818	5.21	1
11031	1234789-HpCDF	55673-89-7	5.24	B	0.0976	5.21	1
11031	OCDF	39001-02-0	163	B	0.0836	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-175-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 12:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0980	JB	0.0205	1.03	1
11031	12378-PeCDD	40321-76-4	0.327	JB	0.0357	5.14	1
11031	123478-HxCDD	39227-28-6	0.261	JB	0.0273	5.14	1
11031	123678-HxCDD	57653-85-7	1.24	JB	0.0275	5.14	1
11031	123789-HxCDD	19408-74-3	0.933	JB	0.0281	5.14	1
11031	1234678-HpCDD	35822-46-9	13.3	B	0.0311	5.14	1
11031	OCDD	3268-87-9	100	B	0.0280	10.3	1
11031	2378-TCDF	51207-31-9	1.17		0.0830	1.03	1
11650	2378-TCDF-Conf	51207-31-9	0.364	JB	0.0504	1.03	1
11031	12378-PeCDF	57117-41-6	0.483	JB	0.0283	5.14	1
11031	23478-PeCDF	57117-31-4	0.566	JB	0.0300	5.14	1
11031	123478-HxCDF	70648-26-9	1.51	JB	0.0238	5.14	1
11031	123678-HxCDF	57117-44-9	0.984	JB	0.0206	5.14	1
11031	123789-HxCDF	72918-21-9	0.366	JB	0.0281	5.14	1
11031	234678-HxCDF	60851-34-5	0.473	JBQ	0.0229	5.14	1
11031	1234678-HpCDF	67562-39-4	2.13	JB	0.0130	5.14	1
11031	1234789-HpCDF	55673-89-7	0.343	JB	0.0249	5.14	1
11031	OCDF	39001-02-0	4.22	JB	0.0177	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/17/2011 08:58	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11164002	06/19/2011 01:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	JBQ	0.0153	1.05	1
11031	12378-PeCDD	40321-76-4	0.277	JBQ	0.0248	5.23	1
11031	123478-HxCDD	39227-28-6	0.208	JBQ	0.0519	5.23	1
11031	123678-HxCDD	57653-85-7	0.526	JB	0.0556	5.23	1
11031	123789-HxCDD	19408-74-3	0.378	JB	0.0451	5.23	1
11031	1234678-HpCDD	35822-46-9	8.84	B	0.0504	5.23	1
11031	OCDD	3268-87-9	96.0	B	0.0664	10.5	1
11031	2378-TCDF	51207-31-9	0.323	J	0.0514	1.05	1
11031	12378-PeCDF	57117-41-6	0.260	JB	0.0247	5.23	1
11031	23478-PeCDF	57117-31-4	0.389	JB	0.0261	5.23	1
11031	123478-HxCDF	70648-26-9	0.207	JB	0.0687	5.23	1
11031	123678-HxCDF	57117-44-9	0.220	JBQ	0.0574	5.23	1
11031	123789-HxCDF	72918-21-9	0.189	JB	0.0338	5.23	1
11031	234678-HxCDF	60851-34-5	0.231	JB	0.0287	5.23	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0377	5.23	1
11031	1234789-HpCDF	55673-89-7	0.146	JB	0.0349	5.23	1
11031	OCDF	39001-02-0	3.18	JB	0.0466	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-179-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 14:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482	JBQ	0.0140	1.02	1
11031	12378-PeCDD	40321-76-4	0.284	JB	0.0202	5.12	1
11031	123478-HxCDD	39227-28-6	0.161	JBQ	0.0367	5.12	1
11031	123678-HxCDD	57653-85-7	0.371	JB	0.0373	5.12	1
11031	123789-HxCDD	19408-74-3	0.276	JB	0.0348	5.12	1
11031	1234678-HpCDD	35822-46-9	7.61	B	0.0555	5.12	1
11031	OCDD	3268-87-9	98.6	B	0.0436	10.2	1
11031	2378-TCDF	51207-31-9	0.115	JQ	0.0192	1.02	1
11031	12378-PeCDF	57117-41-6	0.243	JB	0.0155	5.12	1
11031	23478-PeCDF	57117-31-4	0.305	JBQ	0.0152	5.12	1
11031	123478-HxCDF	70648-26-9	0.316	JB	0.0317	5.12	1
11031	123678-HxCDF	57117-44-9	0.179	JBQ	0.0281	5.12	1
11031	123789-HxCDF	72918-21-9	0.195	JB	0.0272	5.12	1
11031	234678-HxCDF	60851-34-5	0.168	JBQ	0.0231	5.12	1
11031	1234678-HpCDF	67562-39-4	1.06	JB	0.0292	5.12	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0353	5.12	1
11031	OCDF	39001-02-0	3.19	JB	0.0443	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 15:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	JB	0.0169	1.04	1
11031	12378-PeCDD	40321-76-4	0.382	JBQ	0.0336	5.18	1
11031	123478-HxCDD	39227-28-6	0.576	JBQ	0.0747	5.18	1
11031	123678-HxCDD	57653-85-7	2.22	JB	0.0776	5.18	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0729	5.18	1
11031	1234678-HpCDD	35822-46-9	64.1	B	0.130	5.18	1
11031	OCDD	3268-87-9	1,090	B	0.119	10.4	1
11031	2378-TCDF	51207-31-9	0.526	JQ	0.0716	1.04	1
11031	12378-PeCDF	57117-41-6	0.301	JB	0.0409	5.18	1
11031	23478-PeCDF	57117-31-4	0.759	JB	0.0402	5.18	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0512	5.18	1
11031	123678-HxCDF	57117-44-9	0.490	JB	0.0458	5.18	1
11031	123789-HxCDF	72918-21-9	0.469	JB	0.0448	5.18	1
11031	234678-HxCDF	60851-34-5	0.521	JB	0.0383	5.18	1
11031	1234678-HpCDF	67562-39-4	6.63	B	0.0436	5.18	1
11031	1234789-HpCDF	55673-89-7	0.399	JB	0.0525	5.18	1
11031	OCDF	39001-02-0	16.0	B	0.0496	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 19:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0212 JBQ	0.0153	1.05	1
11031	12378-PeCDD	40321-76-4	0.125 JBQ	0.0235	5.23	1
11031	123478-HxCDD	39227-28-6	0.152 JBQ	0.0513	5.23	1
11031	123678-HxCDD	57653-85-7	0.566 JB	0.0552	5.23	1
11031	123789-HxCDD	19408-74-3	0.407 JBQ	0.0495	5.23	1
11031	1234678-HpCDD	35822-46-9	15.3 B	0.0790	5.23	1
11031	OCDD	3268-87-9	207 B	0.0718	10.5	1
11031	2378-TCDF	51207-31-9	0.167 JQ	0.0360	1.05	1
11031	12378-PeCDF	57117-41-6	0.0698 JBQ	0.0221	5.23	1
11031	23478-PeCDF	57117-31-4	0.259 JB	0.0209	5.23	1
11031	123478-HxCDF	70648-26-9	0.472 JB	0.0454	5.23	1
11031	123678-HxCDF	57117-44-9	0.132 JB	0.0423	5.23	1
11031	123789-HxCDF	72918-21-9	0.135 JBQ	0.0291	5.23	1
11031	234678-HxCDF	60851-34-5	0.174 JB	0.0227	5.23	1
11031	1234678-HpCDF	67562-39-4	1.95 JB	0.0421	5.23	1
11031	1234789-HpCDF	55673-89-7	0.178 JB	0.0391	5.23	1
11031	OCDF	39001-02-0	5.36 JB	0.0418	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-182-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 20:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165	U	0.0165	1.02	1
11031	12378-PeCDD	40321-76-4	0.357	JB	0.0222	5.10	1
11031	123478-HxCDD	39227-28-6	0.402	JB	0.0639	5.10	1
11031	123678-HxCDD	57653-85-7	1.19	JB	0.0657	5.10	1
11031	123789-HxCDD	19408-74-3	0.835	JBQ	0.0643	5.10	1
11031	1234678-HpCDD	35822-46-9	18.3	B	0.0694	5.10	1
11031	OCDD	3268-87-9	186	B	0.0882	10.2	1
11031	2378-TCDF	51207-31-9	0.104	JQ	0.0269	1.02	1
11031	12378-PeCDF	57117-41-6	0.0596	JB	0.0172	5.10	1
11031	23478-PeCDF	57117-31-4	0.282	JB	0.0177	5.10	1
11031	123478-HxCDF	70648-26-9	0.199	JBQ	0.0409	5.10	1
11031	123678-HxCDF	57117-44-9	0.254	JB	0.0359	5.10	1
11031	123789-HxCDF	72918-21-9	0.138	JBQ	0.0319	5.10	1
11031	234678-HxCDF	60851-34-5	0.270	JB	0.0245	5.10	1
11031	1234678-HpCDF	67562-39-4	2.53	JB	0.0316	5.10	1
11031	1234789-HpCDF	55673-89-7	0.195	JBQ	0.0401	5.10	1
11031	OCDF	39001-02-0	5.25	JB	0.0432	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 21:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441	JB	0.0118	1.03	1
11031	12378-PeCDD	40321-76-4	0.106	JB	0.0168	5.17	1
11031	123478-HxCDD	39227-28-6	0.0870	JBQ	0.0365	5.17	1
11031	123678-HxCDD	57653-85-7	0.318	JB	0.0381	5.17	1
11031	123789-HxCDD	19408-74-3	0.264	JB	0.0346	5.17	1
11031	1234678-HpCDD	35822-46-9	6.28	B	0.0343	5.17	1
11031	OCDD	3268-87-9	81.9	B	0.0413	10.3	1
11031	2378-TCDF	51207-31-9	0.161	J	0.0375	1.03	1
11031	12378-PeCDF	57117-41-6	0.0636	JB	0.0183	5.17	1
11031	23478-PeCDF	57117-31-4	0.242	JB	0.0175	5.17	1
11031	123478-HxCDF	70648-26-9	0.374	JB	0.0289	5.17	1
11031	123678-HxCDF	57117-44-9	0.0939	JBQ	0.0260	5.17	1
11031	123789-HxCDF	72918-21-9	0.107	JB	0.0219	5.17	1
11031	234678-HxCDF	60851-34-5	0.118	JB	0.0200	5.17	1
11031	1234678-HpCDF	67562-39-4	0.898	JB	0.0222	5.17	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0259	5.17	1
11031	OCDF	39001-02-0	2.26	JB	0.0271	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/13/2011 15:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB09-SA5DN-SS-052611 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5DN-SS-052611

LLI Sample # WW 6300386
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 12:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-EB9 SDG#: DX093-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.164	U	0.164	2.15	1
10915	12378-PeCDD	40321-76-4	0.349	JBQ	0.199	10.8	1
10915	123478-HxCDD	39227-28-6	0.177	U	0.177	10.8	1
10915	123678-HxCDD	57653-85-7	0.287	JBQ	0.186	10.8	1
10915	123789-HxCDD	19408-74-3	0.429	JBQ	0.169	10.8	1
10915	1234678-HpCDD	35822-46-9	5.91	JBQ	0.466	10.8	1
10915	OCDD	3268-87-9	14.2	JB	0.504	21.5	1
10915	2378-TCDF	51207-31-9	0.130	U	0.130	2.15	1
10915	12378-PeCDF	57117-41-6	0.0960	U	0.0960	10.8	1
10915	23478-PeCDF	57117-31-4	0.426	JBQ	0.0842	10.8	1
10915	123478-HxCDF	70648-26-9	0.256	JB	0.123	10.8	1
10915	123678-HxCDF	57117-44-9	0.345	JB	0.117	10.8	1
10915	123789-HxCDF	72918-21-9	0.183	JBQ	0.126	10.8	1
10915	234678-HxCDF	60851-34-5	0.169	JBQ	0.109	10.8	1
10915	1234678-HpCDF	67562-39-4	0.601	JB	0.161	10.8	1
10915	1234789-HpCDF	55673-89-7	0.365	JBQ	0.181	10.8	1
10915	OCDF	39001-02-0	1.12	JBQ	0.453	21.5	1

The recoveries of the labeled compounds were outside QC limits in the initial analysis of this equipment blank. Therefore, the data could not be reported. This equipment blank was re-extracted and the percent recoveries for 2378-TCDF, 12378-PeCDF, and 123678-HxCDF were outside QC limits low (within 2%) in the OPR associated with this sample. There was not sufficient sample to re-extract again so the results from the second extraction were reported.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	47	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	44	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB09-SA5DN-SS-052611 Water**
SSFL Area IV Collocated Soil Sampling
EB09-SA5DN-SS-052611

LLI Sample # WW 6300386
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 12:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-EB9 SDG#: DX093-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11171001	06/23/2011 21:19	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11171001	06/22/2011 06:10	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB11-SA8N-SB-052611 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA8N-SB-052611

LLI Sample # WW 6300387
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB11 SDG#: DX093-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.301	JBQ	0.300	2.02	1
10915	12378-PeCDD	40321-76-4	0.411	JBQ	0.307	10.1	1
10915	123478-HxCDD	39227-28-6	0.457	JBQ	0.218	10.1	1
10915	123678-HxCDD	57653-85-7	0.323	JBQ	0.232	10.1	1
10915	123789-HxCDD	19408-74-3	0.483	JB	0.220	10.1	1
10915	1234678-HpCDD	35822-46-9	2.70	JB	0.339	10.1	1
10915	OCDD	3268-87-9	6.60	JB	0.344	20.2	1
10915	2378-TCDF	51207-31-9	0.291	U	0.291	2.02	1
10915	12378-PeCDF	57117-41-6	0.247	JBQ	0.185	10.1	1
10915	23478-PeCDF	57117-31-4	0.695	JBQ	0.166	10.1	1
10915	123478-HxCDF	70648-26-9	0.439	JBQ	0.224	10.1	1
10915	123678-HxCDF	57117-44-9	0.204	U	0.204	10.1	1
10915	123789-HxCDF	72918-21-9	0.579	JBQ	0.224	10.1	1
10915	234678-HxCDF	60851-34-5	0.882	JBQ	0.185	10.1	1
10915	1234678-HpCDF	67562-39-4	1.71	JB	0.149	10.1	1
10915	1234789-HpCDF	55673-89-7	0.593	JBQ	0.177	10.1	1
10915	OCDF	39001-02-0	2.18	JB	0.454	20.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB11-SA8N-SB-052611 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA8N-SB-052611

LLI Sample # WW 6300387
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB11 SDG#: DX093-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11154001	06/07/2011 17:58	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11154001	06/03/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11158162401A	Sample number(s): 6300364-6300367								
Moisture Content by 160.3					100		80-120		
Batch number: 11158162401B	Sample number(s): 6300368-6300373,6300375-6300377,6300379,6300381-6300385								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401B	Sample number(s): 6300374,6300378,6300380								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11154001	Sample number(s): 6300387								
2378-TCDD	0.343 J	0.294	2.00	pg/l	92		67-158		
12378-PeCDD	1.18 J	0.332	10.0	pg/l	96		70-142		
123478-HxCDD	0.888 J	0.249	10.0	pg/l	96		70-164		
123678-HxCDD	0.712 J	0.265	10.0	pg/l	99		76-134		
123789-HxCDD	1.50 J	0.250	10.0	pg/l	97		64-162		
1234678-HpCDD	3.82 J	0.318	10.0	pg/l	98		70-140		
OCDD	9.88 J	0.354	20.0	pg/l	97		78-144		
2378-TCDF	0.368 J	0.302	2.00	pg/l	97		75-158		
12378-PeCDF	0.895 J	0.188	10.0	pg/l	100		80-134		
23478-PeCDF	0.981 J	0.165	10.0	pg/l	99		68-160		
123478-HxCDF	1.05 J	0.203	10.0	pg/l	99		72-134		
123678-HxCDF	1.06 J	0.193	10.0	pg/l	98		84-130		
123789-HxCDF	1.01 J	0.198	10.0	pg/l	99		78-130		
234678-HxCDF	1.18 J	0.169	10.0	pg/l	98		70-156		
1234678-HpCDF	2.66 J	0.169	10.0	pg/l	99		82-122		
1234789-HpCDF	1.23 J	0.188	10.0	pg/l	97		78-138		
OCDF	3.74 J	0.491	20.0	pg/l	97		63-170		
Batch number: 11160002	Sample number(s): 6300367,6300370,6300373-6300376,6300378,6300380-6300385								
2378-TCDD	0.0262 J	0.0224	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0422 J	0.0220	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0405 J	0.0149	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0321 J	0.0158	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0266 J	0.0141	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.165 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	0.358 J	0.0281	10.0	ng/kg	91		78-144		
2378-TCDF	0.0174 U	0.0174	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0406 J	0.0106	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0851 J	0.0107	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0410 J	0.0153	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0212 J	0.0135	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0765 J	0.0151	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0475 J	0.0113	5.00	ng/kg	90		70-156		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0916	J	0.00980	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0865	J	0.0168	5.00	ng/kg	92		78-138		
OCDF	0.272	J	0.0394	10.0	ng/kg	92		63-170		
Batch number: 11164002	Sample number(s): 6300364-6300366,6300368-6300369,6300371-6300372,6300377,6300379									
2378-TCDD	0.0312	J	0.0244	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0678	J	0.0214	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0282	J	0.0167	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0834	J	0.0180	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0880	J	0.0175	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.441	J	0.0230	5.00	ng/kg	95		70-140		
OCDD	1.24	J	0.0254	10.0	ng/kg	93		78-144		
2378-TCDF	0.0242	U	0.0242	1.00	ng/kg	91		75-158		
2378-TCDF-Conf	0.0331	J	0.0208	1.00	ng/kg					
12378-PeCDF	0.0398	J	0.0127	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0741	J	0.0132	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0646	J	0.0142	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0428	J	0.0123	5.00	ng/kg	91		84-130		
123789-HxCDF	0.103	J	0.0184	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0484	J	0.0134	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.125	J	0.00890	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.129	J	0.0168	5.00	ng/kg	95		78-138		
OCDF	0.518	J	0.0389	10.0	ng/kg	93		63-170		
Batch number: 11171001	Sample number(s): 6300386									
2378-TCDD	0.172	U	0.172	2.00	pg/l	71		67-158		
12378-PeCDD	0.249	J	0.171	10.0	pg/l	77		70-142		
123478-HxCDD	0.221	U	0.221	10.0	pg/l	80		70-164		
123678-HxCDD	0.363	J	0.229	10.0	pg/l	80		76-134		
123789-HxCDD	0.765	J	0.215	10.0	pg/l	79		64-162		
1234678-HpCDD	6.67	J	0.589	10.0	pg/l	83		70-140		
OCDD	13.7	J	0.607	20.0	pg/l	91		78-144		
2378-TCDF	0.131	U	0.131	2.00	pg/l	74*		75-158		
12378-PeCDF	0.310	J	0.0947	10.0	pg/l	78*		80-134		
23478-PeCDF	0.557	J	0.0826	10.0	pg/l	77		68-160		
123478-HxCDF	0.509	J	0.128	10.0	pg/l	81		72-134		
123678-HxCDF	0.434	J	0.121	10.0	pg/l	82*		84-130		
123789-HxCDF	0.608	J	0.138	10.0	pg/l	81		78-130		
234678-HxCDF	0.530	J	0.117	10.0	pg/l	81		70-156		
1234678-HpCDF	1.14	J	0.239	10.0	pg/l	85		82-122		
1234789-HpCDF	0.982	J	0.284	10.0	pg/l	83		78-138		
OCDF	1.25	J	0.767	20.0	pg/l	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11158162401A	Sample number(s): 6300364-6300367 BKG: P300336								
Moisture Content by 160.3						16.3	15.9	3	20
Batch number: 11158162401B	Sample number(s): 6300368-6300373,6300375-6300377,6300379,6300381-6300385 BKG:								

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401B	Sample number(s): 6300374,6300378,6300380 BKG: P298871								
Moisture Content by 160.3						6.4	7.5	17	20
Batch number: 11164002	Sample number(s): 6300364-6300366,6300368-6300369,6300371-6300372,6300377,6300379 UNSPK: 6300364								
2378-TCDD	89	89	67-158	0	25				
12378-PeCDD	93	91	70-142	2	25				
123478-HxCDD	97	94	70-164	3	25				
123678-HxCDD	98	98	76-134	1	25				
123789-HxCDD	96	93	64-162	3	25				
1234678-HpCDD	99	94	70-140	4	25				
OCDD	94	93	78-144	1	25				
2378-TCDF	95	96	75-158	2	25				
12378-PeCDF	96	93	80-134	2	25				
23478-PeCDF	92	96	68-160	4	25				
123478-HxCDF	93	94	72-134	2	25				
123678-HxCDF	91	92	84-130	2	25				
123789-HxCDF	99	93	78-130	6	25				
234678-HxCDF	95	95	70-156	0	25				
1234678-HpCDF	97	94	82-122	2	25				
1234789-HpCDF	99	95	78-138	3	25				
OCDF	94	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11154001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300387	66	62	58	60	64	65
Blank	79	73	67	67	72	74
OPR	78	77	70	72	76	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300387	52	52	41	87	63	65
Blank	60	62	49	98	73	72
OPR	69	69	56	89	78	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300387	64	65	55	42	66	61
Blank	71	74	64	51	77	72
OPR	78	77	71	58	77	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11160002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300367	71	64	27	32	68	64
6300370	66	59	44	52	63	61
6300373	78	71	72	79	76	77
6300374	80	72	50	54	75	77
6300375	78	71	68	72	77	78
6300376	78	70	26	26	75	79
6300378	72	62	46	49	65	63
6300380	88	78	37	42	84	82
6300381	83	75	60	65	80	80
6300382	84	76	63	69	81	85
6300383	79	72	42	44	79	75
6300384	76	68	45	50	72	68
6300385	81	66	52	57	73	75
Blank	67	63	55	61	71	64
OPR	68	63	59	70	70	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300367	46	54	46	87	71	74
6300370	63	53	45	82	65	67
6300373	85	66	57	87	77	81
6300374	57	67	59	88	74	74
6300375	72	69	60	85	74	78
6300376	34	67	58	85	73	69
6300378	55	56	48	76	65	64
6300380	52	69	57	96	84	79
6300381	70	69	59	91	79	82
6300382	70	73	66	90	78	82
6300383	54	70	60	88	74	77
6300384	62	59	52	86	71	76
6300385	61	65	55	86	75	79
Blank	75	57	49	90	69	74
OPR	85	56	50	90	71	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300367	69	75	71	62	64	72
6300370	66	71	68	59	59	66
6300373	80	82	78	67	71	78
6300374	71	77	72	64	77	74

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

6300375	76	78	75	66	75	74
6300376	66	77	72	63	76	72
6300378	62	69	64	59	68	67
6300380	77	91	82	70	82	86
6300381	81	84	77	66	80	80
6300382	80	83	78	71	80	77
6300383	74	80	76	65	76	74
6300384	74	77	71	63	73	76
6300385	79	82	76	64	72	69
Blank	74	80	72	64	61	68
OPR	77	80	76	68	60	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11164002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300364	69	65	67	79	69	57
6300365	62	59	59	71	63	51
6300366	73	68	70	82	71	64
6300368	71	67	69	78	70	61
6300369	72	69	69	76	70	60
6300371	76	70	73	79	74	63
6300372	77	71	77	77	75	73
6300377	86	100	88	93	91	105
6300379	74	73	68	78	70	69
Blank	81	74	78	90	78	68
MSRE	62	59	59	71	63	51
MSDRE	73	68	70	82	71	64
OPR	70	67	67	73	68	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300364	90	50	38	95	73	76
6300365	81	43	33	85	66	68
6300366	91	50	37	86	76	79
6300368	87	48	36	95	74	74
6300369	83	49	36	95	74	74
6300371	82	53	44	96	76	74
6300372	75	60	49	93	73	75
6300377	107	97	95	103	98	92
6300379	102	68	62	93	79	80
Blank	94	56	46	102	84	90
MSRE	81	43	33	85	66	68
MSDRE	91	50	37	86	76	79
OPR	83	54	41	97	75	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300364	77	75	68	56	63	74
6300365	68	68	61	51	55	68

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

6300366	76	79	68	55	70	78
6300368	76	75	64	51	65	74
6300369	73	72	62	49	67	76
6300371	76	76	63	55	74	77
6300372	75	77	67	55	77	77
6300377	92	86	106	106	87	99
6300379	78	80	90	86	69	82
Blank	88	89	79	65	73	84
MSRE	68	68	61	51	55	68
MSDRE	76	79	68	55	70	78
OPR	75	75	70	53	62	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6300364	
6300365	
6300366	
6300368	
6300369	
6300371	
6300372	
6300377	
6300379	79
Blank	90
MSRE	
MSDRE	
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11171001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300386	50	46	41	43	46	46
Blank	63	58	55	57	59	60
OPR	72	70	69	70	72	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300386	42	44	41	82	47	46
Blank	50	51	44	90	59	59
OPR	66	69	64	83	72	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300386	45	47	46	42	49	44
Blank	56	58	52	45	61	56
OPR	71	73	71	64	69	69

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Acct# 13013 LL# 630364-97 GK# 1249960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA8N-SB-4.5	5.26.11	1100	SOIL	NONE	4-Encores										X	X											
SL-001-SA8N-SB-4.0-5.0	5.26.11	1105	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-001-SA8N-SB-9.0-10.0	5.26.11	1135	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
SL-002-SA8N-SB-4.5MS	5.26.11	1420	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-002-SA8N-SB-4.0-5.0MS	5.26.11	1420	SOIL	NONE	9-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-002-SA8N-SB-9.0-10.0	5.26.11	1450	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-4.5	5.26.11	0910	SOIL	NONE	4-Encores										X	X											
SL-008-SA8N-SB-4.0-5.0	5.26.11	0915	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-9.0-5100	5.26.11	0940	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	4-Encores										X	X											
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-052611	5.26.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*) Date/Time: 05/26/2011 / 1700

Received for Laboratory by: (*Signature*) 5/27/11 0915

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) Date/Time

Airbill No.(s): 8754 3340 1787, 1798, 1802, 1813, 1824

Acct# 13013 LL# 6300564-57 GL# 1249960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-SS Sleeve			X	X																	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-SS Sleeve			X	X																	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	1-SS Sleeve			X	X																	
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-SS Sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 1787,1798,1802,1813,1824	

Acct# 13013 LL# 630036Y-57 GR# 1245960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	SS ONLY: *Pesticides EPA 8081A (surface soil only)	SS ONLY: *Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	**TPH-E/H EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X			X	X		X			
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-500 mL poly		X				X	X	X															
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HNO3	1-500 mL poly	X																						
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NaOH	1-500 mL poly																			X				
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-250 mL jar																X							
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HCL	2-40 mL vials																							X
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	4-40 mL vials															X							X	
EB11-SA8N-SB-052611	5.26.11	1300	WATER	NONE	5-1 liter ambers			X	X	X																		
EB11-SA8N-SB-052611	5.26.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X															
EB11-SA8N-SB-052611	5.26.11	1300	WATER	HNO3	1-500 mL poly	X																						
EB11-SA8N-SB-052611	5.26.11	1300	WATER	HNO3	6-40mL Vials											X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 1787,1798,1802,1813,1824	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/28/2011
Group Number: 1249132
SDG: DE167
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-071-SA5DN-SS-0.0-0.5 Soil	6301472
SL-091-SA5DN-SS-0.0-0.5 Soil	6301473
SL-092-SA5DN-SS-0.0-0.5 Soil	6301474
SL-093-SA5DN-SS-0.0-0.5 Soil	6301475
SL-117-SA5DN-SS-0.0-0.5 Soil	6301476
SL-117-SA5DN-SS-0.0-0.5MS Soil	6301477
SL-117-SA5DN-SS-0.0-0.5MSD Soil	6301478
SL-117-SA5DN-SS-0.0-0.5DUP Soil	6301479
SL-118-SA5DN-SS-0.0-0.5 Soil	6301480
SL-119-SA5DN-SS-0.0-0.5 Soil	6301481
SL-120-SA5DN-SS-0.0-0.5 Soil	6301482
SL-122-SA5DN-SS-0.0-0.5 Soil	6301483
DUP09-SA5DN-QC-052711 Soil	6301484
SL-003-SA8N-SB-4.0-5.0 Soil	6301485
SL-003-SA8N-SB-9.0-10.0 Soil	6301486
TB-052711 Water	6301487

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Miche'le D. Hamilton
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	5.1	J	3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	8.7	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	2.7	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	510		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.82		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.37		1
01363	Endrin Ketone	53494-70-5	0.23	J	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.32		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.53	22.0		1
07914	Boron	7440-42-8	0.978	U	0.978	5.49		1
01650	Calcium	7440-70-2	32,700		6.74	22.0		1
01654	Iron	7439-89-6	25,800		5.18	22.0		1
01656	Lithium	7439-93-2	20.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,930		2.79	11.0		1
06958	Manganese	7439-96-5	347		0.0857	0.549		1
10145	Phosphorus	7723-14-0	495		0.615	11.0		1
01662	Potassium	7440-09-7	4,480		19.8	54.9		1
01667	Sodium	7440-23-5	132		41.0	110		1
07968	Strontium	7440-24-6	68.4		0.0681	0.549		1
06969	Tin	7440-31-5	2.56	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,260		0.418	1.10		1
10146	Zirconium	7440-67-7	3.11	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0854	0.427		2
06126	Barium	7440-39-3	111		0.115	0.427		2
06127	Beryllium	7440-41-7	0.712		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.288		0.0427	0.107		2
06131	Chromium	7440-47-3	24.6		0.128	0.427		2
06132	Cobalt	7440-48-4	8.34		0.0213	0.107		2
06133	Copper	7440-50-8	13.7		0.0704	0.427		2
06135	Lead	7439-92-1	11.1		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.399		0.0533	0.107		2
06139	Nickel	7440-02-0	16.0		0.107	0.427		2
06141	Selenium	7782-49-2	0.177	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0305	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.283		0.0320	0.107		2
06148	Vanadium	7440-62-2	48.2		0.0235	0.107		2
06149	Zinc	7440-66-6	103		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.22	1.1		1

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Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 05:41	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 17:40	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:28	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 05:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 04:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1

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Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

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CDM Federal Programs Corp.
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--071 SDG#: DE167-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:48	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:48	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 05:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 14:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 13:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	56	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	58	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	68	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	27	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	24	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	78	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Fluoranthene	206-44-0	120	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	76	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	130	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	3.5	J	1.8	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.6	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	J	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	100	U	100	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.19		1
10401	2,4,5-TP	93-72-1	0.10	J	0.082	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4,5-TP represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.3	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.79		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.85		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.050	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	3.6		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		5.34	21.2		1
07914	Boron	7440-42-8	0.944	U	0.944	5.31		1
01650	Calcium	7440-70-2	5,530		6.50	21.2		1
01654	Iron	7439-89-6	31,300		25.0	106		5
01656	Lithium	7439-93-2	24.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,550		2.70	10.6		1
06958	Manganese	7439-96-5	463		0.0828	0.531		1
10145	Phosphorus	7723-14-0	416		0.594	10.6		1
01662	Potassium	7440-09-7	6,010		19.1	53.1		1
01667	Sodium	7440-23-5	95.2	J	39.6	106		1
07968	Strontium	7440-24-6	31.8		0.0658	0.531		1
06969	Tin	7440-31-5	2.72	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,340		0.403	1.06		1
10146	Zirconium	7440-67-7	3.34	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.37		0.0849	0.424		2
06126	Barium	7440-39-3	133		0.115	0.424		2
06127	Beryllium	7440-41-7	0.869		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.442		0.0424	0.106		2
06131	Chromium	7440-47-3	29.4		0.127	0.424		2
06132	Cobalt	7440-48-4	9.60		0.0212	0.106		2
06133	Copper	7440-50-8	16.5		0.0700	0.424		2
06135	Lead	7439-92-1	12.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.573		0.0531	0.106		2
06139	Nickel	7440-02-0	21.3		0.106	0.424		2
06141	Selenium	7782-49-2	0.161	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0521	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.328		0.0318	0.106		2
06148	Vanadium	7440-62-2	53.7		0.0233	0.106		2
06149	Zinc	7440-66-6	88.7		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0351	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 06:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 18:11	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:55	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 23:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 05:21	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 04:34	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:56	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:51	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:51	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 05:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 13:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.5	J	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	12		1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	46		3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	46		3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	68		3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	26		3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	29		3.7	9.3		5
10138	Chrysene	218-01-9	70		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	8.0	J	3.7	9.3		5
10138	Fluoranthene	206-44-0	110		3.7	9.3		5
10138	Fluorene	86-73-7	6.0	J	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	64		3.7	9.3		5
10138	Pyrene	129-00-0	92		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	200	U	200	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.19		1
10401	2,4,5-TP	93-72-1	0.16	J	0.083	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

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Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4,5-T represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	2.7	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.74		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.71		0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.27	J	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.057	U	0.057	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.8		0.44	1.9		1

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Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		5.56	22.1		1
07914	Boron	7440-42-8	0.985	U	0.985	5.53		1
01650	Calcium	7440-70-2	5,510		6.78	22.1		1
01654	Iron	7439-89-6	29,600		5.21	22.1		1
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,620		2.81	11.1		1
06958	Manganese	7439-96-5	449		0.0863	0.553		1
10145	Phosphorus	7723-14-0	428		0.620	11.1		1
01662	Potassium	7440-09-7	5,810		19.9	55.3		1
01667	Sodium	7440-23-5	89.2	J	41.3	111		1
07968	Strontium	7440-24-6	31.5		0.0686	0.553		1
06969	Tin	7440-31-5	2.66	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,350		0.420	1.11		1
10146	Zirconium	7440-67-7	3.92	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.81		0.0894	0.447		2
06126	Barium	7440-39-3	144		0.121	0.447		2
06127	Beryllium	7440-41-7	0.926		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.446		0.0447	0.112		2
06131	Chromium	7440-47-3	32.2		0.134	0.447		2
06132	Cobalt	7440-48-4	10.5		0.0223	0.112		2
06133	Copper	7440-50-8	16.8		0.0737	0.447		2
06135	Lead	7439-92-1	12.1		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.492		0.0559	0.112		2
06139	Nickel	7440-02-0	22.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.171	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0519	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.328		0.0335	0.112		2
06148	Vanadium	7440-62-2	60.4		0.0246	0.112		2
06149	Zinc	7440-66-6	85.1		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.22	1.1		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	06:34	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	06:44	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	09:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	05:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	04:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	02:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:00	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:00	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 14:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	4.9	J	3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.0		5
10138	Chrysene	218-01-9	5.6	J	1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Fluoranthene	206-44-0	7.8	J	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	4.8	J	3.6	9.0		5
10138	Pyrene	129-00-0	7.0	J	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	730		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.15	J	0.082	0.18		1
	Target analytes were detected in the method blank associated with the sample as							

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Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.4	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.085	U	0.085	0.37		1
01363	p,p-DDE	72-55-9	0.62		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.3		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37		1
01363	Endrin Ketone	53494-70-5	0.13	U	0.13	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.062	U	0.062	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	27		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		5.29	21.0		1
07914	Boron	7440-42-8	0.935	U	0.935	5.25		1
01650	Calcium	7440-70-2	5,290		6.44	21.0		1
01654	Iron	7439-89-6	30,900		24.7	105		5
01656	Lithium	7439-93-2	24.0		0.23	2.1		1
01657	Magnesium	7439-95-4	6,490		2.67	10.5		1
06958	Manganese	7439-96-5	452		0.0820	0.525		1
10145	Phosphorus	7723-14-0	403		0.588	10.5		1
01662	Potassium	7440-09-7	5,880		18.9	52.5		1
01667	Sodium	7440-23-5	92.0	J	39.2	105		1
07968	Strontium	7440-24-6	29.7		0.0652	0.525		1
06969	Tin	7440-31-5	2.64	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,390		0.399	1.05		1
10146	Zirconium	7440-67-7	3.78	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0849	0.424		2
06126	Barium	7440-39-3	139		0.115	0.424		2
06127	Beryllium	7440-41-7	0.866		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.472		0.0424	0.106		2
06131	Chromium	7440-47-3	30.3		0.127	0.424		2
06132	Cobalt	7440-48-4	10.7		0.0212	0.106		2
06133	Copper	7440-50-8	16.5		0.0700	0.424		2
06135	Lead	7439-92-1	12.7		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.520		0.0531	0.106		2
06139	Nickel	7440-02-0	21.5		0.106	0.424		2
06141	Selenium	7782-49-2	0.214	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0473	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.362		0.0318	0.106		2
06148	Vanadium	7440-62-2	56.8		0.0233	0.106		2
06149	Zinc	7440-66-6	82.8		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0127	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.22	1.1		1

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SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	07:01	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	07:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	09:50	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	06:02	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	05:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	03:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011	03:07	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:03	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 14:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	4.5	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	6.7	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	7.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	7.6	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	6.0	J	3.7	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	10		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	4.8	J	3.7	9.2		5
10138	Pyrene	129-00-0	13		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	490	U	490	490		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for MCPA and

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

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Suite 210
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--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
2,4,5-TP represent the lowest reporting limits attainable.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.3	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.52		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.1		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.094	U	0.094	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.15	U	0.15	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.095	J	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.44	U	0.44	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	4.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	9.8		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	67		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	210		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	2.2	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	5,500		6.64	21.7		1
01654	Iron	7439-89-6	31,800		25.5	108		5
01656	Lithium	7439-93-2	24.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,580		2.75	10.8		1
06958	Manganese	7439-96-5	464		0.0845	0.542		1
10145	Phosphorus	7723-14-0	387		0.607	10.8		1
01662	Potassium	7440-09-7	5,780		19.5	54.2		1
01667	Sodium	7440-23-5	101	J	40.4	108		1
07968	Strontium	7440-24-6	31.7		0.0672	0.542		1
06969	Tin	7440-31-5	2.75	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,420		0.412	1.08		1
10146	Zirconium	7440-67-7	4.09	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.24		0.0867	0.433		2
06126	Barium	7440-39-3	138		0.117	0.433		2
06127	Beryllium	7440-41-7	0.889		0.0173	0.108		2

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.500		0.0433	0.108		2
06131	Chromium	7440-47-3	31.0		0.130	0.433		2
06132	Cobalt	7440-48-4	9.33		0.0217	0.108		2
06133	Copper	7440-50-8	16.4		0.0715	0.433		2
06135	Lead	7439-92-1	12.6		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.536		0.0542	0.108		2
06139	Nickel	7440-02-0	21.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.195	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0643	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.362		0.0325	0.108		2
06148	Vanadium	7440-62-2	56.6		0.0238	0.108		2
06149	Zinc	7440-66-6	80.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0644	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 12:33	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 07:27	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 15:21	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 03:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:31	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 07:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 05:30	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:02	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 21:59	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 11:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 14:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 01:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:20	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:30	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:30	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 06:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 06:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 13:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 14:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,450		184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	920		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,700		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	890		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,200		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	370		1
04688	Fluoranthene	206-44-0	1,600		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorocyclopentadiene	77-47-4	1,200		180	550		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,600		37	180		1
04688	4-Methylphenol	106-44-5	1,700		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		37	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,800		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,100		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		3.7	9.2		5
10138	Acenaphthylene	208-96-8	29		1.8	9.2		5
10138	Anthracene	120-12-7	38		1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	59		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	64		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	74		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	43		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	57		3.7	9.2		5
10138	Butylbenzylphthalate	85-68-7	40	J	33	99		5
10138	Di-n-butylphthalate	84-74-2	38	J	33	99		5
10138	Chrysene	218-01-9	78		1.8	9.2		5

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	35		3.7	9.2		5
10138	Diethylphthalate	84-66-2	34	J	33	99		5
10138	Dimethylphthalate	131-11-3	33	U	33	99		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	J	33	99		5
10138	Fluoranthene	206-44-0	91		3.7	9.2		5
10138	Fluorene	86-73-7	34		3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	46		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	34		3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	30		3.7	9.2		5
10138	Naphthalene	91-20-3	33		3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	30		3.7	9.2		5
10138	Di-n-octylphthalate	117-84-0	38	J	33	99		5
10138	Phenanthrene	85-01-8	66		3.7	9.2		5
10138	Pyrene	129-00-0	83		3.7	9.2		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		66	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		44	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		44	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		44	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		44	130		1
10132	HMX	2691-41-0	2,100		110	330		1
10132	Nitrobenzene	98-95-3	2,400		44	130		1
10132	Nitroglycerin	55-63-0	52,000		880	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		88	130		1
10132	3-Nitrotoluene	99-08-1	2,500		110	130		1
10132	4-Nitrotoluene	99-99-0	2,300		88	130		1
10132	PETN	78-11-5	64,000		880	2,700		1
10132	RDX	121-82-4	2,000		55	130		1
10132	Tetryl	479-45-8	2,100		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		44	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		44	130		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.8		1.3	4.0		1
10401	Dalapon	75-99-0	8.9	J	4.9	9.9		1
10401	2,4-DB	94-82-6	3.4		0.69	1.9		1
10401	Dicamba	1918-00-9	0.98	J	0.44	1.3		1
10401	Dinoseb	88-85-7	2.7		0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.88	1.9		1
10401	MCPA	94-74-6	750		84	280		1
10401	MCPP (Mecoprop)	93-65-2	410		83	280		1
10401	2,4,5-T	93-76-5	0.48		0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.55		0.083	0.19		1
Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method								

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,200		660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.21		0.073	0.19		1
01363	Alpha BHC	319-84-6	0.28		0.038	0.19		1
01363	Beta BHC	319-85-7	0.20		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.038	0.19		1
01363	Chlordane	57-74-9	3.5	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.63		0.073	0.38		1
01363	p,p-DDE	72-55-9	0.75		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.38		1
01363	Delta BHC	319-86-8	0.23		0.040	0.19		1
01363	Dieldrin	60-57-1	0.56		0.073	0.38		1
01363	Endosulfan I	959-98-8	0.20		0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.75		0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.34	J	0.073	0.38		1
01363	Endrin	72-20-8	0.55		0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.33	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.41		0.073	0.38		1
01363	Heptachlor	76-44-8	0.36		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.27		0.038	0.19		1
01363	Methoxychlor	72-43-5	3.1		0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	7.1		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	46		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	210		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,700		110	550		1
10501	Isopropanol	67-63-0	1,900		110	550		1
10501	Methanol	67-56-1	1,800		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	100		5.5	11		1
08283	Ethylene glycol	107-21-1	160		5.5	11		1
08283	Propylene glycol	57-55-6	160		5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.4	3.9		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	2.7	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		5.40	21.5		1
07914	Boron	7440-42-8	203		0.955	5.36		1
01650	Calcium	7440-70-2	5,860		6.58	21.5		1
01654	Iron	7439-89-6	32,200		25.3	107		5
01656	Lithium	7439-93-2	128		0.24	2.1		1
01657	Magnesium	7439-95-4	6,840		2.72	10.7		1
06958	Manganese	7439-96-5	517		0.0837	0.536		1
10145	Phosphorus	7723-14-0	479		0.601	10.7		1
01662	Potassium	7440-09-7	7,250		19.3	53.6		1
01667	Sodium	7440-23-5	1,100		40.0	107		1
07968	Strontium	7440-24-6	132		0.0665	0.536		1
06969	Tin	7440-31-5	350		1.07	10.7		1
06970	Titanium	7440-32-6	1,620		0.408	1.07		1
10146	Zirconium	7440-67-7	100		0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.505		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.68		0.0875	0.438		2
06126	Barium	7440-39-3	150		0.118	0.438		2
06127	Beryllium	7440-41-7	1.43		0.0175	0.109		2

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.53	0.0438	0.109		2
06131	Chromium	7440-47-3	40.9	0.131	0.438		2
06132	Cobalt	7440-48-4	61.7	0.0219	0.109		2
06133	Copper	7440-50-8	26.5	0.0722	0.438		2
06135	Lead	7439-92-1	17.3	0.0114	0.219		2
06138	Molybdenum	7439-98-7	10.5	0.0547	0.109		2
06139	Nickel	7440-02-0	31.9	0.109	0.438		2
06141	Selenium	7782-49-2	2.28	0.0438	0.438		2
06142	Silver	7440-22-4	11.0	0.0131	0.109		2
06145	Thallium	7440-28-0	0.779	0.0328	0.109		2
06148	Vanadium	7440-62-2	67.6	0.0241	0.109		2
06149	Zinc	7440-66-6	89.9	0.613	3.28		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.280	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.7	0.88	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	595	9.9	33.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	43.6	1.1	5.5		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.4	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 12:51	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 07:54	Mark A Clark	1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 16:29	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 04:38	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:50	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 07:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:29	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 05:48	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:27	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:14	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 11:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 15:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:37	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 14:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 14:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:39	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 14:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 14:51	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:49	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,250		184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	920		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,200		180	550		1
04688	Benzyl alcohol	100-51-6	1,700		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,300		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	370		1
04688	Fluoranthene	206-44-0	1,600		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorocyclopentadiene	77-47-4	530	J	180	550		1
04688	Hexachloroethane	67-72-1	1,300		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180		1
04688	2-Methylphenol	95-48-7	1,600		37	180		1
04688	4-Methylphenol	106-44-5	1,600		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,800		37	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,900		18	180		1
04688	2-Nitrophenol	88-75-5	1,800		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,400		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		3.6	9.1		5
10138	Acenaphthylene	208-96-8	28		1.8	9.1		5
10138	Anthracene	120-12-7	36		1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	37		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	36		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	41		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	31		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	35		3.6	9.1		5
10138	Butylbenzylphthalate	85-68-7	37	J	33	98		5
10138	Di-n-butylphthalate	84-74-2	36	J	33	98		5
10138	Chrysene	218-01-9	54		1.8	9.1		5

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	30		3.6	9.1		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	J	33	98		5
10138	Fluoranthene	206-44-0	38		3.6	9.1		5
10138	Fluorene	86-73-7	33		3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30		3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	32		3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	29		3.6	9.1		5
10138	Naphthalene	91-20-3	31		3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	29		3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	39	J	33	98		5
10138	Phenanthrene	85-01-8	33		3.6	9.1		5
10138	Pyrene	129-00-0	39		3.6	9.1		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		66	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		44	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,400		44	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		44	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		44	130		1
10132	HMX	2691-41-0	2,100		110	330		1
10132	Nitrobenzene	98-95-3	2,300		44	130		1
10132	Nitroglycerin	55-63-0	51,000		880	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		88	130		1
10132	3-Nitrotoluene	99-08-1	2,400		110	130		1
10132	4-Nitrotoluene	99-99-0	2,300		88	130		1
10132	PETN	78-11-5	64,000		880	2,700		1
10132	RDX	121-82-4	2,000		55	130		1
10132	Tetryl	479-45-8	2,100		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		44	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		44	130		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.1		1.3	4.0		1
10401	Dalapon	75-99-0	9.7	J	4.8	9.9		1
10401	2,4-DB	94-82-6	3.7		0.69	1.9		1
10401	Dicamba	1918-00-9	0.66	J	0.44	1.3		1
10401	Dinoseb	88-85-7	2.5	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.87	1.9		1
10401	MCPA	94-74-6	820		83	270		1
10401	MCPP (Mecoprop)	93-65-2	360		82	270		1
10401	2,4,5-T	93-76-5	0.52		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.57		0.083	0.19		1
Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method								

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,200		660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.18	J	0.073	0.19		1
01363	Alpha BHC	319-84-6	0.25		0.038	0.19		1
01363	Beta BHC	319-85-7	0.19		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.038	0.19		1
01363	Chlordane	57-74-9	3.5	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.53		0.073	0.38		1
01363	p,p-DDE	72-55-9	1.1		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.073	0.38		1
01363	Delta BHC	319-86-8	0.22		0.040	0.19		1
01363	Dieldrin	60-57-1	0.52		0.073	0.38		1
01363	Endosulfan I	959-98-8	0.15	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.51		0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.35	J	0.073	0.38		1
01363	Endrin	72-20-8	0.48		0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.32	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.45		0.073	0.38		1
01363	Heptachlor	76-44-8	0.34		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.038	0.19		1
01363	Methoxychlor	72-43-5	2.8		0.38	1.8		1
01363	Mirex	2385-85-5	0.096	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	14		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	23		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	9.2		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	34		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	160		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		110	550		1
10501	Isopropanol	67-63-0	1,900		110	550		1
10501	Methanol	67-56-1	1,900		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	92		5.5	11		1
08283	Ethylene glycol	107-21-1	140		5.5	11		1
08283	Propylene glycol	57-55-6	140		5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	3.4	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,900		5.56	22.1		1
07914	Boron	7440-42-8	213		0.983	5.52		1
01650	Calcium	7440-70-2	5,910		6.77	22.1		1
01654	Iron	7439-89-6	29,400		5.20	22.1		1
01656	Lithium	7439-93-2	131		0.24	2.2		1
01657	Magnesium	7439-95-4	6,790		2.81	11.0		1
06958	Manganese	7439-96-5	454		0.0862	0.552		1
10145	Phosphorus	7723-14-0	476		0.619	11.0		1
01662	Potassium	7440-09-7	7,170		19.9	55.2		1
01667	Sodium	7440-23-5	1,160		41.2	110		1
07968	Strontium	7440-24-6	136		0.0685	0.552		1
06969	Tin	7440-31-5	368		1.10	11.0		1
06970	Titanium	7440-32-6	1,670		0.420	1.10		1
10146	Zirconium	7440-67-7	103		0.928	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.565		0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.62		0.0884	0.442		2
06126	Barium	7440-39-3	153		0.119	0.442		2
06127	Beryllium	7440-41-7	1.73		0.0177	0.110		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	1.62	0.0442	0.110		2
06131	Chromium		7440-47-3	41.8	0.133	0.442		2
06132	Cobalt		7440-48-4	62.0	0.0221	0.110		2
06133	Copper		7440-50-8	27.3	0.0729	0.442		2
06135	Lead		7439-92-1	16.0	0.0115	0.221		2
06138	Molybdenum		7439-98-7	10.2	0.0552	0.110		2
06139	Nickel		7440-02-0	32.9	0.110	0.442		2
06141	Selenium		7782-49-2	2.28	0.0442	0.442		2
06142	Silver		7440-22-4	11.0	0.0133	0.110		2
06145	Thallium		7440-28-0	0.798	0.0331	0.110		2
06148	Vanadium		7440-62-2	69.9	0.0243	0.110		2
06149	Zinc		7440-66-6	92.9	0.619	3.31		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.260	0.0030	0.106		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3		n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 08:20	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 17:00	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 05:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:59	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:00	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:43	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:07	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:52	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 12:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:42	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:42	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	5,250		6.64	21.7		1
01654	Iron	7439-89-6	31,600		25.5	108		5
01656	Lithium	7439-93-2	25.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,530		2.75	10.8		1
06958	Manganese	7439-96-5	446		0.0845	0.542		1
10145	Phosphorus	7723-14-0	418		0.607	10.8		1
01662	Potassium	7440-09-7	5,850		19.5	54.2		1
01667	Sodium	7440-23-5	99.1	J	40.4	108		1
07968	Strontium	7440-24-6	30.0		0.0672	0.542		1
06969	Tin	7440-31-5	2.82	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,410		0.412	1.08		1
10146	Zirconium	7440-67-7	4.97	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0850	0.425		2
06126	Barium	7440-39-3	138		0.115	0.425		2
06127	Beryllium	7440-41-7	0.918		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.507		0.0425	0.106		2
06131	Chromium	7440-47-3	31.2		0.127	0.425		2
06132	Cobalt	7440-48-4	9.97		0.0212	0.106		2
06133	Copper	7440-50-8	17.6		0.0701	0.425		2
06135	Lead	7439-92-1	13.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.539		0.0531	0.106		2
06139	Nickel	7440-02-0	21.8		0.106	0.425		2
06141	Selenium	7782-49-2	0.210	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0448	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.355		0.0319	0.106		2
06148	Vanadium	7440-62-2	58.7		0.0234	0.106		2
06149	Zinc	7440-66-6	85.7		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.56		0.0150	0.522		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:34	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:36	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:36	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 20:49	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 06:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 06:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 13:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 15:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:48	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	380		183	367		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	23	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	360		1
04688	Fluoranthene	206-44-0	40	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	24	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	41	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.6	J	0.37	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	7.7		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	11		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	36		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.4		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.5		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	5.2	U	5.2	5.2		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	280		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.076	J	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.19	J	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.16	J	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.31	J	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDD.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	5.4		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	13		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.48	21.8		1
07914	Boron	7440-42-8	0.969	U	0.969	5.45		1
01650	Calcium	7440-70-2	4,920		6.68	21.8		1
01654	Iron	7439-89-6	27,300		5.13	21.8		1
01656	Lithium	7439-93-2	21.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,020		2.77	10.9		1
06958	Manganese	7439-96-5	484		0.0850	0.545		1
10145	Phosphorus	7723-14-0	392		0.610	10.9		1
01662	Potassium	7440-09-7	5,750		19.6	54.5		1
01667	Sodium	7440-23-5	95.6	J	40.6	109		1
07968	Strontium	7440-24-6	29.6		0.0675	0.545		1
06969	Tin	7440-31-5	2.65	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,390		0.414	1.09		1
10146	Zirconium	7440-67-7	3.47	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0647	0.216		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.16		0.0863	0.431		2
06126	Barium	7440-39-3	127		0.116	0.431		2
06127	Beryllium	7440-41-7	0.808		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.465		0.0431	0.108		2
06131	Chromium	7440-47-3	26.6		0.129	0.431		2
06132	Cobalt	7440-48-4	9.87		0.0216	0.108		2
06133	Copper	7440-50-8	15.5		0.0712	0.431		2
06135	Lead	7439-92-1	9.91		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.548		0.0539	0.108		2
06139	Nickel	7440-02-0	19.8		0.108	0.431		2
06141	Selenium	7782-49-2	0.185	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0376	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.354		0.0324	0.108		2
06148	Vanadium	7440-62-2	50.3		0.0237	0.108		2
06149	Zinc	7440-66-6	68.9		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0247	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:26	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 08:46	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 07:51	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 06:03	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:09	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 10:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:25	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/07/2011 23:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 12:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 13:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:18	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:06	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:06	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 06:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 16:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 15:54	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 18:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-118-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	252	J	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.8		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	3.1		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.76	U	0.76	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	670		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	5.6		0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.31	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.38		1
01363	Delta BHC	319-86-8	0.086	J	0.040	0.18		1
01363	Dieldrin	60-57-1	0.84	U	0.84	0.84		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13		10
10199	EFH (C15-C20)	n.a.	12	J	4.4	13		10
10199	EFH (C21-C30)	n.a.	88		4.4	13		10
10199	EFH (C30 - C40)	n.a.	490		4.4	13		10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	8.3	U	8.3	19		5
10318	o-Terphenyl	84-15-1	8.3	U	8.3	19		5
10318	p-Terphenyl	92-94-4	12	J	8.3	19		5
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,000		5.36	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	5,150		6.53	21.3		1
01654	Iron	7439-89-6	26,300		5.02	21.3		1
01656	Lithium	7439-93-2	22.1		0.23	2.1		1
01657	Magnesium	7439-95-4	6,030		2.71	10.7		1
06958	Manganese	7439-96-5	463		0.0831	0.533		1
10145	Phosphorus	7723-14-0	404		0.597	10.7		1
01662	Potassium	7440-09-7	5,710		19.2	53.3		1
01667	Sodium	7440-23-5	87.5	J	39.8	107		1
07968	Strontium	7440-24-6	28.6		0.0661	0.533		1
06969	Tin	7440-31-5	2.59	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,350		0.405	1.07		1
10146	Zirconium	7440-67-7	2.94	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0861	0.431		2
06126	Barium	7440-39-3	141		0.116	0.431		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.886		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.901		0.0431	0.108		2
06131	Chromium	7440-47-3	29.1		0.129	0.431		2
06132	Cobalt	7440-48-4	9.51		0.0215	0.108		2
06133	Copper	7440-50-8	17.9		0.0710	0.431		2
06135	Lead	7439-92-1	12.5		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.524		0.0538	0.108		2
06139	Nickel	7440-02-0	21.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.184	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0569	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.341		0.0323	0.108		2
06148	Vanadium	7440-62-2	53.5		0.0237	0.108		2
06149	Zinc	7440-66-6	106		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0644	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:43	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 09:13	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 08:28	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 06:45	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:18	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 10:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:44	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 01:41	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/07/2011 02:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/10/2011 18:23	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:09	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 16:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:05	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:53	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	320	J	183	366		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	26	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	66	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	890		18	370		1
04688	Fluoranthene	206-44-0	48	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	41	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	46	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	3.5	J	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	9.8		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	7.5	J	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	7.7	J	3.6	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	J	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	680		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
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-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	9.3		0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.39		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	2.9	U	2.9	2.9		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	12	J	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	30		2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

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-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	12		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	52		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	160		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.3	U	3.3	7.7		2
10318	o-Terphenyl	84-15-1	3.3	U	3.3	7.7		2
10318	p-Terphenyl	92-94-4	6.6	J	3.3	7.7		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		5.31	21.1		1
07914	Boron	7440-42-8	0.940	U	0.940	5.28		1
01650	Calcium	7440-70-2	5,330		6.48	21.1		1
01654	Iron	7439-89-6	31,600		24.9	106		5
01656	Lithium	7439-93-2	23.3		0.23	2.1		1
01657	Magnesium	7439-95-4	6,350		2.68	10.6		1
06958	Manganese	7439-96-5	488		0.0824	0.528		1
10145	Phosphorus	7723-14-0	375		0.592	10.6		1
01662	Potassium	7440-09-7	5,560		19.0	52.8		1
01667	Sodium	7440-23-5	92.5	J	39.4	106		1
07968	Strontium	7440-24-6	29.9		0.0655	0.528		1
06969	Tin	7440-31-5	2.79	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,220		0.402	1.06		1
10146	Zirconium	7440-67-7	3.04	J	0.888	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0879	0.440		2
06126	Barium	7440-39-3	134		0.119	0.440		2

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.803		0.0176	0.110		2
06128	Cadmium	7440-43-9	2.02		0.0440	0.110		2
06131	Chromium	7440-47-3	29.4		0.132	0.440		2
06132	Cobalt	7440-48-4	9.84		0.0220	0.110		2
06133	Copper	7440-50-8	18.1		0.0725	0.440		2
06135	Lead	7439-92-1	16.4		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.622		0.0549	0.110		2
06139	Nickel	7440-02-0	21.8		0.110	0.440		2
06141	Selenium	7782-49-2	0.156	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.268		0.0132	0.110		2
06145	Thallium	7440-28-0	0.326		0.0330	0.110		2
06148	Vanadium	7440-62-2	50.8		0.0242	0.110		2
06149	Zinc	7440-66-6	186		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.461		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
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-120- SDG#: DE167-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 14:01	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 09:39	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 08:59	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 07:28	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:28	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 13:04	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 08:16	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 01:17	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 23:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/07/2011 02:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/10/2011 20:37	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:29	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1

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SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
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Account # 13013

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-120- SDG#: DE167-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:12	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:12	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 17:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:15	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Anthracene	120-12-7	43	J	20	200		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	390		20	200		1
04688	Benzo(a)pyrene	50-32-8	270		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	380		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	140	J	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	170	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	28	J	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	360		20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	43	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	20	390		1
04688	Fluoranthene	206-44-0	570		20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	180	J	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1

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Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	590		20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	24		3.9	9.8		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8		5
10138	Fluorene	86-73-7	13		3.9	9.8		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8		5
10138	Phenanthrene	85-01-8	190		3.9	9.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.93	U	0.93	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	450	U	450	450		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.20		1

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Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA, 2,4-DB and 2,4,5-TP represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	3.0	J	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.17	U	0.17	0.40		1
01363	p,p-DDE	72-55-9	0.50		0.078	0.40		1
01363	p,p-DDT	50-29-3	1.3		0.078	0.40		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.26	U	0.26	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.1		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.9	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		5.95	23.6		1
07914	Boron	7440-42-8	1.05	U	1.05	5.91		1
01650	Calcium	7440-70-2	5,780		7.25	23.6		1
01654	Iron	7439-89-6	35,300		27.8	118		5
01656	Lithium	7439-93-2	25.4		0.26	2.4		1
01657	Magnesium	7439-95-4	7,140		3.00	11.8		1
06958	Manganese	7439-96-5	473		0.0922	0.591		1
10145	Phosphorus	7723-14-0	402		0.662	11.8		1
01662	Potassium	7440-09-7	5,770		21.3	59.1		1
01667	Sodium	7440-23-5	96.5	J	44.1	118		1
07968	Strontium	7440-24-6	36.0		0.0733	0.591		1
06969	Tin	7440-31-5	3.07	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,620		2.25	5.91		5
10146	Zirconium	7440-67-7	4.09	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0909	0.455		2
06126	Barium	7440-39-3	148		0.123	0.455		2
06127	Beryllium	7440-41-7	1.07		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.486		0.0455	0.114		2
06131	Chromium	7440-47-3	32.6		0.136	0.455		2
06132	Cobalt	7440-48-4	10.4		0.0227	0.114		2
06133	Copper	7440-50-8	19.3		0.0750	0.455		2
06135	Lead	7439-92-1	14.4		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.500		0.0568	0.114		2
06139	Nickel	7440-02-0	22.9		0.114	0.455		2
06141	Selenium	7782-49-2	0.213	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0558	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.376		0.0341	0.114		2
06148	Vanadium	7440-62-2	61.9		0.0250	0.114		2
06149	Zinc	7440-66-6	84.4		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6	U	10.6	35.5		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.72	J	0.24	1.2		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.76		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	10:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	09:39	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	13:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	08:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	08:35	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/09/2011	03:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	03:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011	11:47	Joanne M Gates	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/09/2011 03:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/09/2011 03:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/09/2011 11:47	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:15	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:15	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
00159	Mercury	SW-846 7471A	2	111615711001	06/13/2011 20:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 17:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	5.0	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	47		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	40		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	67		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	36		3.7	9.2		5
10138	Chrysene	218-01-9	46		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	5.3	J	3.7	9.2		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	68	J	33	99		5
10138	Fluoranthene	206-44-0	96		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	25		3.7	9.2		5
10138	Pyrene	129-00-0	76		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	400		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
represent the lowest reporting limits attainable.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.1	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.47		0.073	0.38		1
01363	p,p-DDT	50-29-3	0.97		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.090	U	0.090	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.26	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.0		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.7		2
10199	EFH (C15-C20)	n.a.	9.8		0.88	2.7		2
10199	EFH (C21-C30)	n.a.	30		0.88	2.7		2
10199	EFH (C30 - C40)	n.a.	72		0.88	2.7		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		5.34	21.2		1
07914	Boron	7440-42-8	0.946	U	0.946	5.31		1
01650	Calcium	7440-70-2	5,290		6.51	21.2		1
01654	Iron	7439-89-6	32,300		25.0	106		5
01656	Lithium	7439-93-2	23.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,500		2.70	10.6		1
06958	Manganese	7439-96-5	503		0.0829	0.531		1
10145	Phosphorus	7723-14-0	396		0.595	10.6		1
01662	Potassium	7440-09-7	5,660		19.1	53.1		1
01667	Sodium	7440-23-5	92.8	J	39.6	106		1
07968	Strontium	7440-24-6	30.6		0.0659	0.531		1
06969	Tin	7440-31-5	2.59	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,350		0.404	1.06		1
10146	Zirconium	7440-67-7	3.46	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.39		0.0875	0.438		2
06126	Barium	7440-39-3	134		0.118	0.438		2
06127	Beryllium	7440-41-7	0.897		0.0175	0.109		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.489		0.0438	0.109		2
06131	Chromium	7440-47-3	29.3		0.131	0.438		2
06132	Cobalt	7440-48-4	9.49		0.0219	0.109		2
06133	Copper	7440-50-8	16.6		0.0722	0.438		2
06135	Lead	7439-92-1	13.6		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.519		0.0547	0.109		2
06139	Nickel	7440-02-0	21.0		0.109	0.438		2
06141	Selenium	7782-49-2	0.193	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0556	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.354		0.0328	0.109		2
06148	Vanadium	7440-62-2	54.9		0.0241	0.109		2
06149	Zinc	7440-66-6	78.8		0.613	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0407	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 14:18	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 10:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 10:17	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 08:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:37	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 13:59	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 08:19	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 08:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/07/2011 23:37	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 23:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 15:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 16:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:40	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:18	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:18	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 08:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 08:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 18:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:43	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:56	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.4	8.9		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.94
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.94
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.94
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.94
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.94
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.94
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.94
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.94
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.94
06192	Methylene Chloride	75-09-2	1.1	J	0.27	4.4		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.94

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		24.37
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,300		5.90	23.5		1
07914	Boron	7440-42-8	1.04	U	1.04	5.87		1
01650	Calcium	7440-70-2	9,540		7.19	23.5		1
01654	Iron	7439-89-6	38,800		27.6	117		5
01656	Lithium	7439-93-2	28.8		0.26	2.3		1
01657	Magnesium	7439-95-4	8,290		2.98	11.7		1
06958	Manganese	7439-96-5	442		0.0915	0.587		1
10145	Phosphorus	7723-14-0	313		0.657	11.7		1
01662	Potassium	7440-09-7	4,240		21.1	58.7		1
01667	Sodium	7440-23-5	120		43.8	117		1
07968	Strontium	7440-24-6	48.2		0.0727	0.587		1
06969	Tin	7440-31-5	2.76	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,070		0.446	1.17		1
10146	Zirconium	7440-67-7	2.43	J	0.985	5.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0677	0.226		2

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.88	0.0903	0.451		2
06126	Barium	7440-39-3	139	0.122	0.451		2
06127	Beryllium	7440-41-7	1.03	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.240	0.0451	0.113		2
06131	Chromium	7440-47-3	36.1	0.135	0.451		2
06132	Cobalt	7440-48-4	11.2	0.0226	0.113		2
06133	Copper	7440-50-8	17.6	0.0745	0.451		2
06135	Lead	7439-92-1	10.6	0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.379	0.0564	0.113		2
06139	Nickel	7440-02-0	25.4	0.113	0.451		2
06141	Selenium	7782-49-2	0.140 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0394 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.385	0.0339	0.113		2
06148	Vanadium	7440-62-2	66.4	0.0248	0.113		2
06149	Zinc	7440-66-6	76.9	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

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0034- SDG#: DE167-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 14:30	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 13:28	Jason M Long	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114824550	05/28/2011 12:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114824550	05/28/2011 12:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114824550	05/28/2011 12:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114824550	05/28/2011 12:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 10:59	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 10:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 09:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 15:53	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:48	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:21	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:21	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 08:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203B	06/13/2011 18:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203B	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.82	U	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.82	U	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.82	U	0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	0.82	U	0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	0.82	U	0.82	2.0		1
10138	Pyrene	129-00-0	0.82	U	0.82	2.0		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1		1

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Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	12		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	12		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,500		6.22	24.7		1
07914	Boron	7440-42-8	1.10	U	1.10	6.18		1
01650	Calcium	7440-70-2	76,500		37.9	124		5
01654	Iron	7439-89-6	29,700		5.82	24.7		1
01656	Lithium	7439-93-2	25.3		0.27	2.5		1
01657	Magnesium	7439-95-4	8,100		3.14	12.4		1
06958	Manganese	7439-96-5	401		0.0964	0.618		1
10145	Phosphorus	7723-14-0	512		0.692	12.4		1
01662	Potassium	7440-09-7	4,140		22.2	61.8		1
01667	Sodium	7440-23-5	189		46.1	124		1
07968	Strontium	7440-24-6	125		0.0766	0.618		1
06969	Tin	7440-31-5	2.67	J	1.24	12.4		1
06970	Titanium	7440-32-6	1,330		0.470	1.24		1
10146	Zirconium	7440-67-7	4.26	J	1.04	6.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0916	J	0.0727	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.36		0.0969	0.485		2
06126	Barium	7440-39-3	109		0.131	0.485		2
06127	Beryllium	7440-41-7	0.842		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.393		0.0485	0.121		2
06131	Chromium	7440-47-3	33.7		0.145	0.485		2
06132	Cobalt	7440-48-4	10.5		0.0242	0.121		2
06133	Copper	7440-50-8	17.4		0.0800	0.485		2
06135	Lead	7439-92-1	9.79		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.365		0.0606	0.121		2
06139	Nickel	7440-02-0	23.5		0.121	0.485		2
06141	Selenium	7782-49-2	0.137	J	0.0485	0.485		2
06142	Silver	7440-22-4	0.0602	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.365		0.0364	0.121		2
06148	Vanadium	7440-62-2	64.7		0.0267	0.121		2
06149	Zinc	7440-66-6	69.1		0.679	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.1	0.99	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1 U	11.1	37.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.25	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.38	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	19.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	11:25	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	11:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011	23:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	09:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011	09:15	Maria Davenport	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 16:06	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/09/2011 04:03	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:24	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:24	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:24	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 09:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203B	06/13/2011 19:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 17:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203B	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-052711 Water
SSFL Area IV Collocated Soil Sampling
TB-052711

LLI Sample # WW 6301487
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:00

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB527 SDG#: DE167-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	1	J	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-052711 Water
SSFL Area IV Collocated Soil Sampling
TB-052711

LLI Sample # WW 6301487
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:00

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB527 SDG#: DE167-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	J	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111531AA	06/02/2011 13:33	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111511AA	05/31/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111511AA	05/31/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111531AA	06/02/2011 13:33	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111521AA	Sample number(s): 6301485									
Acetone	8.6		6.7	8.0	ug/kg	116		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	112		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	66		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	59		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	66		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	78	74	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	117		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	114		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	97		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	98	78-120	4	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	126		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	110		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	127		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	101		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	69		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
Batch number: E111511AA	Sample number(s): 6301487									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	107	80-123	3	30
Batch number: E111531AA	Sample number(s): 6301485									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	111	70-130	6	30
Batch number: L111531AA	Sample number(s): 6301487									
Acetone	6	U	6.	20	ug/l	108	108	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	100	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	91	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	99	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	95	97	80-120	1	30
Bromoform	1	U	1.	5	ug/l	81	82	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	96	94	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	97	100	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	96	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	109	113	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	91	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	103	105	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	100	109	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	69	70	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	90	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	95	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	104	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	109	109	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	99	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	100	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	95	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	99	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	100	79-120	1	30
Freon 113	2	U	2.	10	ug/l	100	99	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	106	109	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	82	86	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	94	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	100	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	90	93	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	93	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	94	95	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	96	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	100	100	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	87	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	103	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	117	113	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	99	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	96	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	100	109	65-125	9	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
Batch number: 11153SLC026	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	92		70-130		
Batch number: 11153SLF026	Sample number(s): 6301472-6301478,6301480-6301486									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	70		34-94		
Anthracene	17	U	17.	170	ug/kg	99		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	95		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	91		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	82		62-113		
Benzyl alcohol	170		170.	500	ug/kg	96		68-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	111		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	85		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	93		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	59		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	35*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	113		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	101		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	95		64-119		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	93		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	78		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	107		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11153SLG026	Sample number(s): 6301472-6301478,6301480-6301486									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	93		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	98		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	101		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	72		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	108		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 111510007A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	103		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	107		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	114		80-120		
RDX	50	U	50.	120	ug/kg	98		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111520003A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	93		80-126		
Batch number: 111570016A	Sample number(s): 6301472-6301478,6301480-6301484									
2,4-D	1.2	U	1.2	3.6	ug/kg	97		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	63		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	22		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	116		62-170		
MCPA	76	U	76.	250	ug/kg	90		60-130		
MCPP (Mecoprop)	84	J	75.	250	ug/kg	81		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	86		68-114		
Batch number: 111520014A	Sample number(s): 6301473,6301486									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111540006A	Sample number(s): 6301472-6301478,6301480-6301484									
Aldrin	0.066	U	0.066	0.17	ug/kg	52		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	70		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	59		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	109		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	75		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	118		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	69		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	118		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	75		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	115		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	76		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	88		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	76		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	116		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111570015A	Sample number(s): 6301472-6301478,6301480-6301486									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	88	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111570011A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		67-127		
EFH (C8-C11)	0.40	J	0.40	1.2	mg/kg	70		54-107		
Batch number: 111510033A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
Ethanol	100	U	100.	500	ug/kg	90		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111530019A	Sample number(s): 6301476-6301478,6301480-6301482,6301484-6301486									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111540013A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 111571026008A	Sample number(s): 6301472-6301486									
Antimony	0.0571	U	0.0571	0.190	mg/kg	64		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	95		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	95		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	100		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	97		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	95		82-118		
Copper	0.0629	U	0.0629	0.381	mg/kg	90		83-110		
Lead	0.0194	J	0.0099	0.190	mg/kg	95		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	97		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	96		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	97		83-110		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	88		84-116		
Zinc	0.533	U	0.533	2.86	mg/kg	95		81-112		
Batch number: 111571026008B	Sample number(s): 6301472-6301486									
Selenium	0.0381	U	0.0381	0.381	mg/kg	99		83-111		
Batch number: 111571026008C	Sample number(s): 6301472-6301486									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	100		78-122		
Batch number: 111571026008D	Sample number(s): 6301472-6301486									
Barium	0.103	U	0.103	0.381	mg/kg	97		81-111		
Batch number: 111575708004	Sample number(s): 6301472-6301486									
Aluminum	4.79	U	4.79	19.0	mg/kg	97		61-110		
Boron	0.848	U	0.848	4.76	mg/kg	86		78-110		
Calcium	6.72	J	5.84	19.0	mg/kg	97		88-110		
Iron	4.49	U	4.49	19.0	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	99		80-120		
Magnesium	2.42	U	2.42	9.52	mg/kg	96		82-110		
Manganese	0.0743	U	0.0743	0.476	mg/kg	97		89-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.29	J	0.533	9.52	mg/kg	102		80-120		
Potassium	17.1	U	17.1	47.6	mg/kg	97		78-110		
Sodium	35.5	U	35.5	95.2	mg/kg	94		87-110		
Strontium	0.0590	U	0.0590	0.476	mg/kg	96		86-110		
Tin	1.55	J	0.952	9.52	mg/kg	91		90-114		
Titanium	0.362	U	0.362	0.952	mg/kg	86		80-120		
Zirconium	0.800	U	0.800	4.76	mg/kg	98		80-120		
Batch number: 111595711002	Sample number(s): 6301472-6301482,6301484-6301486									
Mercury	0.0028	U	0.0028	0.0991	mg/kg	89		88-123		
Batch number: 111615711001	Sample number(s): 6301483									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	92		88-123		
Batch number: 11154373205A	Sample number(s): 6301472-6301475,6301480									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	92		90-110		
Batch number: 11154373205B	Sample number(s): 6301476-6301477,6301479,6301481-6301486									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	92		90-110		
Batch number: 11157243201A	Sample number(s): 6301472-6301477,6301479-6301486									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11157373203A	Sample number(s): 6301472-6301477,6301479-6301484									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11157373203B	Sample number(s): 6301485-6301486									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11159102201A	Sample number(s): 6301476-6301477,6301479-6301482,6301484									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11157039401A	Sample number(s): 6301472-6301476,6301479-6301483									
18a pH by 9045C						100		95-105		
Batch number: 11157039401B	Sample number(s): 6301484-6301486									
18a pH by 9045C						100		95-105		
Batch number: 11159162401A	Sample number(s): 6301472-6301475,6301483,6301485-6301486									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162402B	Sample number(s): 6301476-6301482,6301484									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111521AA	Sample number(s): 6301485 UNSPK: P298873								
Acetone	97	93	15-210	11	30				
Benzene	104	103	55-143	8	30				
Bromobenzene	97	97	43-139	8	30				
Bromochloromethane	110	102	60-137	16	30				
Bromodichloromethane	99	98	53-136	9	30				
Bromoform	95	91	38-124	12	30				
Bromomethane	71	70	42-168	9	30				
2-Butanone	93	88	37-163	14	30				
n-Butylbenzene	95	96	30-146	7	30				
sec-Butylbenzene	96	96	33-157	8	30				
tert-Butylbenzene	97	97	41-152	7	30				
Carbon Tetrachloride	107	105	45-153	10	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	64	64	39-152	8	30				
2-Chloroethyl Vinyl Ether	82	79	32-139	12	30				
Chloroform	106	103	61-142	10	30				
Chloromethane	70	67	51-163	12	30				
2-Chlorotoluene	96	96	42-146	7	30				
4-Chlorotoluene	98	98	39-145	7	30				
1,2-Dibromo-3-chloropropane	94	90	30-139	12	30				
Dibromochloromethane	98	95	51-128	11	30				
1,2-Dibromoethane	100	98	54-129	9	30				
Dibromomethane	98	93	57-130	12	30				
1,2-Dichlorobenzene	99	97	36-133	10	30				
1,3-Dichlorobenzene	96	95	34-134	9	30				
1,4-Dichlorobenzene	97	95	35-136	9	30				
Dichlorodifluoromethane	63	60	26-151	12	30				
1,1-Dichloroethane	104	103	63-142	9	30				
1,2-Dichloroethane	107	105	68-131	9	30				
1,1-Dichloroethene	111	108	61-149	10	30				
cis-1,2-Dichloroethene	102	100	60-136	10	30				
trans-1,2-Dichloroethene	100	101	59-142	6	30				
1,2-Dichloropropane	99	98	62-135	8	30				
1,3-Dichloropropane	101	99	58-129	10	30				
2,2-Dichloropropane	104	102	53-147	9	30				
1,1-Dichloropropene	105	104	54-145	8	30				
cis-1,3-Dichloropropene	93	92	51-131	9	30				
trans-1,3-Dichloropropene	93	92	49-129	9	30				
Ethylbenzene	101	101	44-141	7	30				
Freon 113	111	108	56-156	10	30				
Hexachlorobutadiene	82	79	10-155	11	30				
2-Hexanone	96	92	32-160	12	30				
Isopropylbenzene	101	102	38-144	7	30				
p-Isopropyltoluene	95	95	29-152	7	30				
Methyl Tertiary Butyl Ether	97	95	55-129	10	30				
4-Methyl-2-pentanone	94	89	46-139	13	30				
Methylene Chloride	103	99	61-141	11	30				
n-Propylbenzene	97	98	39-157	7	30				
Styrene	102	102	35-134	8	30				
1,1,1,2-Tetrachloroethane	102	100	52-130	9	30				
1,1,2,2-Tetrachloroethane	93	89	40-152	11	30				
Tetrachloroethene	103	103	42-149	7	30				
Toluene	103	103	50-146	8	30				
1,2,3-Trichlorobenzene	91	89	10-140	10	30				
1,2,4-Trichlorobenzene	84	82	10-136	10	30				
1,1,1-Trichloroethane	105	103	64-142	9	30				
1,1,2-Trichloroethane	99	97	54-139	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichloroethene	100	99	53-144	8	30				
Trichlorofluoromethane	93	88	47-163	12	30				
1,2,3-Trichloropropane	94	91	45-154	12	30				
1,2,4-Trimethylbenzene	95	95	37-149	7	30				
1,3,5-Trimethylbenzene	98	99	38-150	7	30				
Vinyl Chloride	74	72	50-154	11	30				
m+p-Xylene	104	104	44-137	8	30				
o-Xylene	100	100	42-137	7	30				
Batch number: E111531AA	Sample number(s): 6301485 UNSPK: P300336								
1,4-Dioxane	86	94	70-130	3	30				
Batch number: 11153SLC026	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
N-Nitrosodimethylamine	157*	136*	70-130	14	30				
Batch number: 11153SLF026	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
Acenaphthene	93	96	75-115	3	30				
Acenaphthylene	98	100	81-110	2	30				
Aniline	50	50	35-95	1	30				
Anthracene	97	97	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	101	99	65-122	3	30				
Benzo(a)pyrene	92	88	57-126	5	30				
Benzo(b)fluoranthene	89	87	59-125	2	30				
Benzo(g,h,i)perylene	77	81	59-127	6	30				
Benzo(k)fluoranthene	85	87	56-132	3	30				
Benzoic acid	59	63	10-173	7	30				
Benzyl alcohol	95	92	67-115	3	30				
4-Bromophenyl-phenylether	98	101	67-129	3	30				
Butylbenzylphthalate	108	107	73-134	1	30				
Di-n-butylphthalate	91	93	67-123	2	30				
Carbazole	93	97	64-120	5	30				
4-Chloro-3-methylphenol	90	91	76-110	1	30				
4-Chloroaniline	57	59	23-95	2	30				
bis(2-Chloroethoxy)methane	95	95	75-104	0	30				
bis(2-Chloroethyl)ether	96	91	60-116	5	30				
bis(2-Chloroisopropyl)ether	98	99	55-142	1	30				
2-Chloronaphthalene	75	84	50-141	12	30				
2-Chlorophenol	92	91	73-121	1	30				
4-Chlorophenyl-phenylether	92	96	80-109	4	30				
Chrysene	92	91	62-128	1	30				
Dibenz(a,h)anthracene	82	84	65-125	3	30				
Dibenzofuran	94	97	71-112	3	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	94	90	63-109	4	30				
1,4-Dichlorobenzene	94	92	70-100	2	30				
3,3'-Dichlorobenzidine	49	68	16-119	33*	30				
2,4-Dichlorophenol	93	94	78-117	1	30				
Diethylphthalate	95	98	66-118	2	30				
2,4-Dimethylphenol	90	89	78-110	1	30				
3,5-Dimethylphenol	98	100	70-130	2	30				
Dimethylphthalate	96	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	55	57	24-116	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	32	35	20-143	7	30				
2,4-Dinitrotoluene	92	97	73-113	6	30				
2,6-Dinitrotoluene	92	94	69-123	2	30				
1,2-Diphenylhydrazine	109	106	71-129	2	30				
bis(2-Ethylhexyl)phthalate	114	111	63-122	3	30				
Fluoranthene	87	88	73-112	0	30				
Fluorene	95	96	77-111	1	30				
Hexachlorobenzene	99	100	77-114	1	30				
Hexachlorobutadiene	94	92	62-120	2	30				
Hexachlorocyclopentadiene	33	14	10-153	79*	30				
Hexachloroethane	83	71	57-109	15	30				
Indeno(1,2,3-cd)pyrene	79	86	61-126	8	30				
Isophorone	99	99	73-102	0	30				
1-Methylnaphthalene	93	94	73-112	0	30				
2-Methylnaphthalene	89	91	76-114	2	30				
2-Methylphenol	87	86	75-111	2	30				
4-Methylphenol	90	87	71-111	3	30				
Naphthalene	94	95	72-116	1	30				
2-Nitroaniline	103	104	67-125	0	30				
3-Nitroaniline	92	96	59-122	5	30				
4-Nitroaniline	76	78	52-112	2	30				
Nitrobenzene	99	102	72-106	3	30				
2-Nitrophenol	95	98	74-115	4	30				
4-Nitrophenol	87	87	54-113	0	30				
N-Nitroso-di-n-propylamine	95	95	60-116	1	30				
N-Nitrosodimethylamine	88	88	47-116	0	30				
N-Nitrosodiphenylamine	103	100	86-145	3	30				
Di-n-octylphthalate	97	97	56-126	0	30				
Pentachlorophenol	61	79	28-127	25	30				
Phenanthrene	94	94	65-125	0	30				
Phenol	91	90	58-126	0	30				
Pyrene	94	95	74-126	1	30				
1,2,4-Trichlorobenzene	96	94	72-115	2	30				
2,4,5-Trichlorophenol	95	95	78-109	1	30				
2,4,6-Trichlorophenol	101	99	77-115	2	30				
Batch number: 11153SLG026	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
Acenaphthene	97	86	63-105	13	30				
Acenaphthylene	79	78	67-114	2	30				
Anthracene	90	87	60-122	4	30				
Benzo(a)anthracene	142*	82	59-128	47*	30				
Benzo(a)pyrene	156*	79	45-138	57*	30				
Benzo(b)fluoranthene	166*	78	43-155	57*	30				
Benzo(g,h,i)perylene	97	64	33-141	33*	30				
Benzo(k)fluoranthene	139	78	42-144	50*	30				
Butylbenzylphthalate	108	102	57-173	7	30				
Di-n-butylphthalate	102	100	65-148	3	30				
Chrysene	61	-4*	48-134	37*	30				
Dibenz(a,h)anthracene	95	84	22-133	14	30				
Diethylphthalate	92	0*	70-136	200*	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	128	128	39-167	1	30				
Fluoranthene	221*	76	26-166	83*	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	91	90	66-122	3	30				
Indeno(1,2,3-cd)pyrene	114	73	21-143	40*	30				
1-Methylnaphthalene	92	88	72-123	5	30				
2-Methylnaphthalene	82	79	64-103	5	30				
Naphthalene	90	86	61-102	6	30				
N-Nitrosodimethylamine	80	79	48-113	3	30				
Di-n-octylphthalate	104	108	40-192	2	30				
Phenanthrene	167*	78	12-165	66*	30				
Pyrene	188*	71	15-153	72*	30				
Batch number: 111510007A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
4-Amino-2,6-Dinitrotoluene	109	107	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	2	50				
1,3-Dinitrobenzene	112	110	38-166	2	50				
2,4-Dinitrotoluene	105	103	80-131	2	50				
2,6-Dinitrotoluene	110	106	80-127	4	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	109	105	80-125	4	50				
Nitroglycerin	97	96	80-120	2	50				
2-Nitrotoluene	106	103	80-122	3	50				
3-Nitrotoluene	112	110	72-119	2	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	120	120	80-121	0	50				
RDX	90	89	75-129	1	50				
Tetryl	97	96	55-174	0	50				
1,3,5-Trinitrobenzene	105	102	82-126	3	50				
2,4,6-Trinitrotoluene	109	107	82-130	2	50				
Batch number: 111520003A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
25a Formaldehyde 8315A	95	94	80-120	1	50				
Batch number: 111570016A	Sample number(s): 6301472-6301478,6301480-6301484 UNSPK: 6301476								
2,4-D	85	78	17-180	10	35				
Dalapon	39	42	10-125	8	50				
2,4-DB	37	41	10-201	10	50				
Dicamba	107	72	10-190	39	50				
Dinoseb	17	16	10-46	8	35				
2,4-DP (Dichlorprop)	109	110	33-178	0	50				
MCPA	81	89	10-213	10	50				
MCPP (Mecoprop)	45	39	10-184	13	50				
2,4,5-T	52	57	10-156	9	35				
2,4,5-TP	60	63	24-141	4	35				
Batch number: 111520014A	Sample number(s): 6301473,6301486 UNSPK: P296036								
6a Perchlorate EPA 6850	103	107	80-120	3	20				
Batch number: 111540006A	Sample number(s): 6301472-6301478,6301480-6301484 UNSPK: 6301476								
Aldrin	58	48	16-126	17	50				
Alpha BHC	76	70	10-129	8	50				
Beta BHC	56	53	14-147	6	50				
Gamma BHC - Lindane	76	73	10-140	4	50				
p,p-DDD	85	72	16-163	17	50				
p,p-DDE	32	78	18-161	36	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDT	34	62	10-176	14	50				
Delta BHC	66	63	23-140	5	50				
Dieldrin	77	71	19-154	8	50				
Endosulfan I	55	42	16-137	25	50				
Endosulfan II	105	71	28-154	39	50				
Endosulfan Sulfate	48	49	21-160	3	50				
Endrin	76	65	11-149	15	50				
Endrin Aldehyde	45	44	10-148	3	35				
Endrin Ketone	56	62	22-165	10	50				
Heptachlor	100	94	13-126	6	50				
Heptachlor Epoxide	47	41	13-157	9	50				
Methoxychlor	80	71	32-147	12	50				
Batch number: 111570015A	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
PCB-1016	88	78	29-146	12	50				
PCB-1260	89	105	39-149	13	50				
Batch number: 111570011A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-196 (2)	-43 (2)	49-123	26*	20				
EFH (C21-C30)	-889 (2)	-1432 (2)	49-123	31*	20				
EFH (C30 - C40)	-226 (2)	-1853 (2)	49-123	25*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111510033A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
Ethanol	60	64	48-130	6	20				
Isopropanol	70	70	12-149	0	20				
Methanol	64	68	43-138	7	20				
Batch number: 111530019A	Sample number(s): 6301476-6301478,6301480-6301482,6301484-6301486 UNSPK: 6301476								
Diethylene glycol	45*	40*	59-109	12	20				
Ethylene glycol	66	57*	63-107	15	20				
Propylene glycol	73	62*	63-107	17	20				
Batch number: 111540013A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
m-Terphenyl	79	83	75-125	5	20				
o-Terphenyl	96	100	75-125	4	20				
p-Terphenyl	28*	63*	75-125	21*	20				
Batch number: 111571026008A	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Antimony	28*	32*	75-125	11	20	0.123 J	0.118 J	4 (1)	20
Arsenic	112	108	75-125	1	20	4.74	5.20	9	20
Beryllium	62*	95	75-125	19	20	0.804	0.831	3	20
Cadmium	94	102	75-125	6	20	0.453	0.459	1 (1)	20
Chromium	90	97	75-125	2	20	28.1	28.3	1	20
Cobalt	96	95	75-125	0	20	8.44	9.02	7	20
Copper	92	98	75-125	3	20	14.9	16.0	7	20
Lead	143*	102	75-125	8	20	11.4	12.0	5	20
Nickel	98	107	75-125	3	20	19.1	19.7	3	20
Silver	100	99	75-125	0	20	0.0582 J	0.0405 J	36* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	95	99	75-125	3	20	0.328	0.322	2 (1)	20
Vanadium	100 (2)	120 (2)	75-125	3	20	51.3	53.1	4	20
Zinc	89 (2)	115 (2)	75-125	3	20	72.6	77.6	7	20
Batch number: 111571026008B	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Selenium	95	94	75-125	0	20	0.176 J	0.190 J	7 (1)	20
Batch number: 111571026008C	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Molybdenum	92	88	75-125	3	20	0.485	0.488	1 (1)	20
Batch number: 111571026008D	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Barium	108 (2)	134 (2)	75-125	2	20	125	125	0	20
Batch number: 111575708004	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Aluminum	1015 (2)	1227 (2)	75-125	2	20	27,300	26,300	4	20
Boron	95	97	84-115	5	20	0.873 U	0.873 U	0 (1)	20
Calcium	84 (2)	94 (2)	75-125	1	20	4,970	4,750	5	20
Iron	438 (2)	-2108 (2)	75-125	9	20	28,700	28,600	1	20
Lithium	96	97	82-114	3	20	21.8	23.2	6	20
Magnesium	120 (2)	97 (2)	75-125	1	20	5,950	5,910	1	20
Manganese	100 (2)	-18 (2)	75-125	13	20	420	403	4	20
Phosphorus	86	80	75-125	1	20	351	378	8	20
Potassium	137 (2)	126 (2)	75-125	1	20	5,230	5,300	1	20
Sodium	93	96	75-125	6	20	91.8 J	89.7 J	2 (1)	20
Strontium	94	94	75-115	3	20	28.7	27.1	6	20
Tin	81	83	80-110	5	20	2.48 J	2.55 J	3 (1)	20
Titanium	182 (2)	226 (2)	75-125	3	20	1,290	1,280	1	20
Zirconium	89	90	75-125	3	20	3.70 J	4.50 J	19 (1)	20
Batch number: 111595711002	Sample number(s): 6301472-6301482,6301484-6301486 UNSPK: 6301476 BKG: 6301476								
Mercury	119	111	65-135	8	20	0.0582 J	1.41	184* (1)	20
Batch number: 111615711001	Sample number(s): 6301483 UNSPK: P305886 BKG: P305886								
Mercury	110	100	65-135	9	20	0.0275 J	0.0291 J	6 (1)	20
Batch number: 11154373205A	Sample number(s): 6301472-6301475,6301480 UNSPK: P293456 BKG: P293456								
11a Anions by 300.0 - Fluoride	100		80-120			1.3	1.0	22* (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.0 J	0.80 U	200* (1)	20
Batch number: 11154373205B	Sample number(s): 6301476-6301477,6301479,6301481-6301486 UNSPK: 6301476 BKG: 6301476								
11a Anions by 300.0 - Fluoride	86		80-120			1.4	1.5	4 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			2.1	2.3	9 (1)	20
Batch number: 11157243201A	Sample number(s): 6301472-6301477,6301479-6301486 UNSPK: 6301476 BKG: 6301476								
3a Cr VI by EPA 7199	100		75-125			1.4	1.0	30* (1)	20
Batch number: 11157373203A	Sample number(s): 6301472-6301477,6301479-6301484 UNSPK: 6301476 BKG: 6301476								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11157373203B	Sample number(s): 6301485-6301486 UNSPK: 6301485 BKG: 6301485								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	108		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11159102201A	Sample number(s): 6301476-6301477,6301479-6301482,6301484 UNSPK: 6301476 BKG: 6301476										
17a Cyanide by 9012B	98		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11157039401A	Sample number(s): 6301472-6301476,6301479-6301483 BKG: 6301476										
18a pH by 9045C						6.85		6.75		1	3
Batch number: 11157039401B	Sample number(s): 6301484-6301486 BKG: P302747										
18a pH by 9045C						8.95		8.93		0	3
Batch number: 11159162401A	Sample number(s): 6301472-6301475,6301483,6301485-6301486 BKG: 6301485										
Moisture Content by 160.3						15.6		15.8		1	20
Batch number: 11160162402B	Sample number(s): 6301476-6301482,6301484 BKG: 6301476										
28a Moisture Content by 160.3						9.5		9.8		2	20
Moisture Content by 160.3						9.5		9.8		2	20
Moisture Content by 160.3						9.5		9.8		2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111521AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6301485	105	108	99	96
Blank	104	100	97	94
LCS	105	106	100	103
MS	102	98	103	100
MSD	101	98	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111511AA

	Toluene-d8
6301487	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111531AA

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

	Toluene-d8
6301485	95
Blank	95
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6301487	108	102	96	97
Blank	107	104	100	98
LCS	107	101	104	105
LCSD	105	103	101	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11153SLC026

	N-Nitrosodimethylamine-d6
6301476	117
6301477	116
6301478	114
6301480	116
6301481	115
6301482	116
6301484	111
Blank	81
LCS	92
MS	116
MSD	114
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11153SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6301472	79	82	87	88	92	93
6301473	83	85	86	91	96	86
6301474	75	77	82	81	88	78
6301475	81	79	83	87	89	85
6301476	84	81	87	90	92	84
6301477	85	87	88	90	92	79
6301478	84	87	89	93	96	80
6301480	80	82	87	91	94	79
6301481	83	84	85	91	94	83
6301482	83	81	84	87	91	82
6301483	90	89	92	92	95	83
6301484	82	82	86	86	88	77

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301485	80	79	85	85	87	80
6301486	85	82	82	89	87	84
Blank	84	85	84	83	88	86
LCS	88	89	93	88	91	93
MS	85	87	88	90	92	79
MSD	84	87	89	93	96	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11153SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6301472	88	81	82
6301473	89	83	85
6301474	91	88	96
6301475	78	76	93
6301476	91	86	94
6301477	95	85	92
6301478	86	81	88
6301480	96	85	91
6301481	64	57	61
6301482	81	73	81
6301483	91	81	90
6301484	96	84	93
6301485	92	78	93
6301486	96	81	97
Blank	98	87	103
LCS	94	85	98
MS	95	85	92
MSD	86	81	88
Limits:	40-130	45-130	45-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111510007A

	2-Nitro-m-xylene
6301476	122
6301477	122
6301478	119
6301480	120
6301481	118
6301482	103
6301484	126
Blank	136
LCS	127
LCSD	132
MS	122
MSD	119
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111520003A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301476	101
6301477	104
6301478	106
6301480	93
6301481	107
6301482	100
6301484	91
Blank	108
LCS	104
MS	104
MSD	106
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 111540006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6301472	66	73
6301473	50	88
6301474	61	87
6301475	68	89
6301476	61	135*
6301477	53	72
6301478	47*	109
6301480	64	79
6301481	60	173*
6301482	48*	36
6301483	59	146*
6301484	48*	89
Blank	41*	96
LCS	43*	96
MS	53	72
MSD	47*	109
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111570015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6301472	71	55
6301473	109	91
6301474	106	91
6301475	100	86
6301476	107	93
6301477	110	96
6301478	103	91
6301480	111	101
6301481	117	98
6301482	65	72
6301483	103	100
6301484	97	84
6301485	111	103
6301486	110	108
Blank	104	111
LCS	110	112
LCSD	107	114

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

MS	110	95
MSD	103	91
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111570016A

	2,4-Dichlorophenylacetic acid
6301472	79
6301473	111
6301474	102
6301475	116
6301476	111
6301477	99
6301478	109
6301480	65
6301481	79
6301482	141
6301483	104
6301484	128
Blank	100
LCS	86
MS	99
MSD	109
Limits:	36-156

Analysis Name: 19a Alcohols by 8015B
Batch number: 111510033A

	Acetone
6301476	73
6301477	80
6301478	79
6301480	75
6301481	74
6301482	77
6301484	74
Blank	88
LCS	87
MS	80
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111530019A

	Tetramethylene glycol
6301476	71
6301477	82
6301478	81
6301480	84
6301481	80
6301482	87

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301484	76
6301485	76
6301486	72
Blank	84
LCS	91
MS	82
MSD	81
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111540013A

	n-Triacontane-d62
6301476	81
6301477	98
6301478	99
6301480	76
6301481	130
6301482	75
6301484	105
Blank	94
LCS	94
MS	100
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111570011A

	Chlorobenzene	Orthoterphenyl
6301476	77	109
6301477	91	113
6301478	86	103
6301480	81	93
6301481	83	109
6301482	74	97
6301484	75	97
Blank	77	93
LCS	89	95
MS	91	113
MSD	86	103
Limits:	37-125	47-145

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Acct # 13013 LL# 6301472-87 GR# 1249132

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-SS Sleeve			X	X																	
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										Perchlorate by C850
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-SS Sleeve			X	X																	was added per PB & PH. NMG 5/11/11
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-SS Sleeve			X	X																	
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-SS Sleeve			X	X																	
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	1-SS Sleeve			X	X																	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	1-SS Sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/27/2011 / 1700	5/28/11 900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s):	

Acct# 13013 LL# 6301472-87 GE #124913 2

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-003-SA8N-SB-4.5	5.27.11	0905	SOIL	NONE	4-Encores										X	X											
SL-003-SA8N-SB-4.0-5.0	5.27.11	0910	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-003-SA8N-SB-9.0-10.0	5.27.11	0930	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
TB-052711	5.27.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/27/2011 / 1700	5/28/11 900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 1890, 1880	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, May 31, 2011 8:39 PM
To: Nicole Maljovec; Hartman, Pamela
Subject: RE: SSFL COC 5/27/11- SL-091 confirming Perchlorate

Nicole - It looks to me like it should be run for 6850.

Please confirm that Pam.

Peggy

-----Original Message-----
From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Tuesday, May 31, 2011 6:28 AM
To: Bloisa, Peggy; Hartman, Pamela
Subject: FW: SSFL COC 5/27/11- SL-091 confirming Perchlorate

Good morning ladies,
Can you confirm whether SL-091-SA5DN-SS-0.0-0.5 should be analyzed for perchlorate 6850?

Thanks!
Nicole

-----Original Message-----
From: Carolyn M. Cyms
Sent: Saturday, May 28, 2011 1:19 PM
To: Nicole Maljovec
Subject: FW: SSFL COC 5/27/11

Hey Nicole, SL-091-SA5DN-SS-0.0-0.5 was marked differently on the original than it is in the email. (They didn't mark perchlorate 6850 on the original.) I entered it for now, can you please confirm that it is wanted?

Thanks,
Carolyn

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Friday, May 27, 2011 6:59 PM
To: 'Laura Rainey'; Zakowski, Cherie; SA Env Entry; Nicole Maljovec; Burgesser, Todd
Subject: SSFL COC 5/27/11

COC for Friday 5/27/11

Have a great weekend!

-Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Nicole Maljovec

From: Pamela Hartman [phartmanster@gmail.com]

Sent: Tuesday, May 31, 2011 9:40 PM

To: Nicole Maljovec

The SL 91 should be run for perchlorate

-- Sent from my Palm Pre

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/28/2011
Group Number: 1249135
SDG: DX094
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-071-SA5DN-SS-0.0-0.5 Soil	6301497
SL-091-SA5DN-SS-0.0-0.5 Soil	6301498
SL-092-SA5DN-SS-0.0-0.5 Soil	6301499
SL-093-SA5DN-SS-0.0-0.5 Soil	6301500
SL-117-SA5DN-SS-0.0-0.5 Soil	6301501
SL-117-SA5DN-SS-0.0-0.5MS Soil	6301502
SL-117-SA5DN-SS-0.0-0.5MSD Soil	6301503
SL-118-SA5DN-SS-0.0-0.5 Soil	6301504
SL-119-SA5DN-SS-0.0-0.5 Soil	6301505
SL-120-SA5DN-SS-0.0-0.5 Soil	6301506
SL-122-SA5DN-SS-0.0-0.5 Soil	6301507
DUP09-SA5DN-QC-052711 Soil	6301508
SL-003-SA8N-SB-4.0-5.0 Soil	6301509
SL-003-SA8N-SB-9.0-10.0 Soil	6301510

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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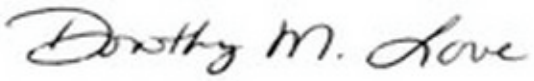
Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0837	JB	0.0233	1.08	1
11031	12378-PeCDD	40321-76-4	0.561	JB	0.0522	5.40	1
11031	123478-HxCDD	39227-28-6	1.06	J	0.130	5.40	1
11031	123678-HxCDD	57653-85-7	2.24	JB	0.137	5.40	1
11031	123789-HxCDD	19408-74-3	1.74	JB	0.129	5.40	1
11031	1234678-HpCDD	35822-46-9	79.2	B	0.195	5.40	1
11031	OCDD	3268-87-9	1,250	B	0.182	10.8	1
11031	2378-TCDF	51207-31-9	0.397	JB	0.134	1.08	1
11031	12378-PeCDF	57117-41-6	2.11	JB	0.0622	5.40	1
11031	23478-PeCDF	57117-31-4	0.743	JB	0.0576	5.40	1
11031	123478-HxCDF	70648-26-9	0.720	JB	0.0731	5.40	1
11031	123678-HxCDF	57117-44-9	0.550	JB	0.0720	5.40	1
11031	123789-HxCDF	72918-21-9	0.478	JB	0.0827	5.40	1
11031	234678-HxCDF	60851-34-5	0.517	JB	0.0691	5.40	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0647	5.40	1
11031	1234789-HpCDF	55673-89-7	0.502	JB	0.0842	5.40	1
11031	OCDF	39001-02-0	15.8	B	0.0837	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 14:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0818	JB	0.0225	1.08	1
11031	12378-PeCDD	40321-76-4	0.951	JBQ	0.0534	5.38	1
11031	123478-HxCDD	39227-28-6	0.985	J	0.0975	5.38	1
11031	123678-HxCDD	57653-85-7	3.37	JB	0.102	5.38	1
11031	123789-HxCDD	19408-74-3	2.52	JB	0.0985	5.38	1
11031	1234678-HpCDD	35822-46-9	99.0	B	0.148	5.38	1
11031	OCDD	3268-87-9	1,530	B	0.190	10.8	1
11031	2378-TCDF	51207-31-9	0.302	JB	0.101	1.08	1
11031	12378-PeCDF	57117-41-6	0.747	JB	0.0459	5.38	1
11031	23478-PeCDF	57117-31-4	0.714	JB	0.0463	5.38	1
11031	123478-HxCDF	70648-26-9	0.773	JB	0.0728	5.38	1
11031	123678-HxCDF	57117-44-9	0.447	JBQ	0.0686	5.38	1
11031	123789-HxCDF	72918-21-9	1.00	JBQ	0.0899	5.38	1
11031	234678-HxCDF	60851-34-5	0.657	JB	0.0696	5.38	1
11031	1234678-HpCDF	67562-39-4	8.66	B	0.0572	5.38	1
11031	1234789-HpCDF	55673-89-7	0.655	JB	0.0772	5.38	1
11031	OCDF	39001-02-0	32.4	B	0.0711	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 15:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	JBQ	0.0223	1.07	1
11031	12378-PeCDD	40321-76-4	0.315	JB	0.0438	5.36	1
11031	123478-HxCDD	39227-28-6	0.503	J	0.0698	5.36	1
11031	123678-HxCDD	57653-85-7	1.95	JB	0.0725	5.36	1
11031	123789-HxCDD	19408-74-3	1.64	JB	0.0706	5.36	1
11031	1234678-HpCDD	35822-46-9	45.8	B	0.124	5.36	1
11031	OCDD	3268-87-9	724	B	0.155	10.7	1
11031	2378-TCDF	51207-31-9	0.0856	U	0.0856	1.07	1
11031	12378-PeCDF	57117-41-6	0.679	JB	0.0483	5.36	1
11031	23478-PeCDF	57117-31-4	0.790	JB	0.0465	5.36	1
11031	123478-HxCDF	70648-26-9	0.746	JB	0.0540	5.36	1
11031	123678-HxCDF	57117-44-9	0.358	JB	0.0526	5.36	1
11031	123789-HxCDF	72918-21-9	0.958	JB	0.0589	5.36	1
11031	234678-HxCDF	60851-34-5	0.492	JB	0.0523	5.36	1
11031	1234678-HpCDF	67562-39-4	4.39	JB	0.0383	5.36	1
11031	1234789-HpCDF	55673-89-7	0.334	JB	0.0503	5.36	1
11031	OCDF	39001-02-0	15.6	B	0.0598	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 16:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0487	JB	0.0245	1.09	1
11031	12378-PeCDD	40321-76-4	0.400	JB	0.0511	5.43	1
11031	123478-HxCDD	39227-28-6	0.583	JQ	0.102	5.43	1
11031	123678-HxCDD	57653-85-7	2.23	JB	0.111	5.43	1
11031	123789-HxCDD	19408-74-3	1.78	JB	0.105	5.43	1
11031	1234678-HpCDD	35822-46-9	54.2	B	0.127	5.43	1
11031	OCDD	3268-87-9	1,050	B	0.167	10.9	1
11031	2378-TCDF	51207-31-9	0.310	JB	0.0854	1.09	1
11031	12378-PeCDF	57117-41-6	0.606	JB	0.0511	5.43	1
11031	23478-PeCDF	57117-31-4	0.936	JB	0.0477	5.43	1
11031	123478-HxCDF	70648-26-9	0.582	JB	0.0639	5.43	1
11031	123678-HxCDF	57117-44-9	0.340	JBQ	0.0616	5.43	1
11031	123789-HxCDF	72918-21-9	1.13	JB	0.0713	5.43	1
11031	234678-HxCDF	60851-34-5	0.537	JB	0.0609	5.43	1
11031	1234678-HpCDF	67562-39-4	4.53	JB	0.0412	5.43	1
11031	1234789-HpCDF	55673-89-7	0.360	JB	0.0539	5.43	1
11031	OCDF	39001-02-0	16.8	B	0.0715	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-093-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 17:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217	U	0.0217	1.10	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0413	5.50	1
11031	123478-HxCDD	39227-28-6	0.180	J	0.0755	5.50	1
11031	123678-HxCDD	57653-85-7	0.855	JB	0.0802	5.50	1
11031	123789-HxCDD	19408-74-3	0.693	JB	0.0779	5.50	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0886	5.50	1
11031	OCDD	3268-87-9	180	B	0.101	11.0	1
11031	2378-TCDF	51207-31-9	0.219	JB	0.0981	1.10	1
11031	12378-PeCDF	57117-41-6	0.757	JB	0.0441	5.50	1
11031	23478-PeCDF	57117-31-4	0.300	JBQ	0.0425	5.50	1
11031	123478-HxCDF	70648-26-9	0.137	JBQ	0.0593	5.50	1
11031	123678-HxCDF	57117-44-9	0.215	JB	0.0572	5.50	1
11031	123789-HxCDF	72918-21-9	0.642	JB	0.0696	5.50	1
11031	234678-HxCDF	60851-34-5	0.206	JB	0.0572	5.50	1
11031	1234678-HpCDF	67562-39-4	2.47	JB	0.101	5.50	1
11031	1234789-HpCDF	55673-89-7	0.165	JB	0.146	5.50	1
11031	OCDF	39001-02-0	7.02	JB	0.0602	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 18:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.4	B	0.0298	1.09	1
11031	12378-PeCDD	40321-76-4	96.9	B	0.0555	5.44	1
11031	123478-HxCDD	39227-28-6	98.6		0.121	5.44	1
11031	123678-HxCDD	57653-85-7	101	B	0.128	5.44	1
11031	123789-HxCDD	19408-74-3	96.9	B	0.119	5.44	1
11031	1234678-HpCDD	35822-46-9	202	B	0.138	5.44	1
11031	OCDD	3268-87-9	1,880	B	0.159	10.9	1
11031	2378-TCDF	51207-31-9	19.6	B	0.0800	1.09	1
11031	12378-PeCDF	57117-41-6	95.7	B	0.0467	5.44	1
11031	23478-PeCDF	57117-31-4	98.1	B	0.0456	5.44	1
11031	123478-HxCDF	70648-26-9	99.7	B	0.0610	5.44	1
11031	123678-HxCDF	57117-44-9	99.7	B	0.0582	5.44	1
11031	123789-HxCDF	72918-21-9	99.4	B	0.0667	5.44	1
11031	234678-HxCDF	60851-34-5	102	B	0.0585	5.44	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0603	5.44	1
11031	1234789-HpCDF	55673-89-7	99.4	B	0.0798	5.44	1
11031	OCDF	39001-02-0	228	B	0.0707	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 19:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.6	B	0.0290	1.10	1
11031	12378-PeCDD	40321-76-4	98.4	B	0.0675	5.51	1
11031	123478-HxCDD	39227-28-6	100		0.101	5.51	1
11031	123678-HxCDD	57653-85-7	102	B	0.106	5.51	1
11031	123789-HxCDD	19408-74-3	100	B	0.101	5.51	1
11031	1234678-HpCDD	35822-46-9	233	B	0.161	5.51	1
11031	OCDD	3268-87-9	2,350	B	0.225	11.0	1
11031	2378-TCDF	51207-31-9	19.1	B	0.0760	1.10	1
11031	12378-PeCDF	57117-41-6	98.7	B	0.0440	5.51	1
11031	23478-PeCDF	57117-31-4	98.3	B	0.0417	5.51	1
11031	123478-HxCDF	70648-26-9	103	B	0.0945	5.51	1
11031	123678-HxCDF	57117-44-9	101	B	0.0884	5.51	1
11031	123789-HxCDF	72918-21-9	102	B	0.0999	5.51	1
11031	234678-HxCDF	60851-34-5	102	B	0.0906	5.51	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0716	5.51	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0938	5.51	1
11031	OCDF	39001-02-0	235	B	0.0696	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 20:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0941	JB	0.0195	1.05	1
11031	12378-PeCDD	40321-76-4	0.407	JB	0.0431	5.26	1
11031	123478-HxCDD	39227-28-6	0.327	J	0.0727	5.26	1
11031	123678-HxCDD	57653-85-7	1.83	JB	0.0766	5.26	1
11031	123789-HxCDD	19408-74-3	1.43	JB	0.0758	5.26	1
11031	1234678-HpCDD	35822-46-9	44.3	B	0.113	5.26	1
11031	OCDD	3268-87-9	960	B	0.198	10.5	1
11031	2378-TCDF	51207-31-9	0.150	JBQ	0.0352	1.05	1
11031	12378-PeCDF	57117-41-6	0.454	JB	0.0206	5.26	1
11031	23478-PeCDF	57117-31-4	0.417	JB	0.0200	5.26	1
11031	123478-HxCDF	70648-26-9	0.485	JB	0.0559	5.26	1
11031	123678-HxCDF	57117-44-9	0.373	JB	0.0540	5.26	1
11031	123789-HxCDF	72918-21-9	1.38	JB	0.0613	5.26	1
11031	234678-HxCDF	60851-34-5	0.363	JB	0.0546	5.26	1
11031	1234678-HpCDF	67562-39-4	3.07	JB	0.0305	5.26	1
11031	1234789-HpCDF	55673-89-7	0.348	JBQ	0.0432	5.26	1
11031	OCDF	39001-02-0	14.1	B	0.0670	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 21:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
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Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.226 JB	0.0203	1.10	1
11031	12378-PeCDD	40321-76-4	1.97 JB	0.0814	5.49	1
11031	123478-HxCDD	39227-28-6	3.41 J	0.132	5.49	1
11031	123678-HxCDD	57653-85-7	15.6 B	0.139	5.49	1
11031	123789-HxCDD	19408-74-3	7.80 B	0.132	5.49	1
11031	1234678-HpCDD	35822-46-9	1,110 B	0.476	5.49	1
11031	OCDD	3268-87-9	17,900 EB	0.371	11.0	1
11031	2378-TCDF	51207-31-9	0.722 JB	0.117	1.10	1
11031	12378-PeCDF	57117-41-6	1.31 JB	0.0563	5.49	1
11031	23478-PeCDF	57117-31-4	1.45 JB	0.0530	5.49	1
11031	123478-HxCDF	70648-26-9	1.88 JB	0.0711	5.49	1
11031	123678-HxCDF	57117-44-9	1.70 JB	0.0698	5.49	1
11031	123789-HxCDF	72918-21-9	1.55 JB	0.0711	5.49	1
11031	234678-HxCDF	60851-34-5	2.12 JB	0.0684	5.49	1
11031	1234678-HpCDF	67562-39-4	31.0 B	0.0844	5.49	1
11031	1234789-HpCDF	55673-89-7	2.98 JB	0.103	5.49	1
11031	OCDF	39001-02-0	68.7 B	0.0549	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/15/2011 23:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	JB	0.0237	1.05	1
11031	12378-PeCDD	40321-76-4	1.20	JB	0.0756	5.27	1
11031	123478-HxCDD	39227-28-6	2.29	J	0.0932	5.27	1
11031	123678-HxCDD	57653-85-7	8.99	B	0.0954	5.27	1
11031	123789-HxCDD	19408-74-3	5.49	B	0.0923	5.27	1
11031	1234678-HpCDD	35822-46-9	305	B	0.278	5.27	1
11031	OCDD	3268-87-9	5,320	EB	0.195	10.5	1
11031	2378-TCDF	51207-31-9	0.532	JB	0.116	1.05	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0545	5.27	1
11031	23478-PeCDF	57117-31-4	1.27	JB	0.0516	5.27	1
11031	123478-HxCDF	70648-26-9	1.46	JB	0.0687	5.27	1
11031	123678-HxCDF	57117-44-9	0.941	JB	0.0645	5.27	1
11031	123789-HxCDF	72918-21-9	1.40	JB	0.0648	5.27	1
11031	234678-HxCDF	60851-34-5	1.12	JB	0.0610	5.27	1
11031	1234678-HpCDF	67562-39-4	19.3	B	0.0623	5.27	1
11031	1234789-HpCDF	55673-89-7	1.28	JB	0.0755	5.27	1
11031	OCDF	39001-02-0	82.5	B	0.0562	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 00:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.155	JBQ	0.0225	1.16	1
11031	12378-PeCDD	40321-76-4	1.98	JB	0.0604	5.78	1
11031	123478-HxCDD	39227-28-6	1.15	J	0.0844	5.78	1
11031	123678-HxCDD	57653-85-7	3.24	JB	0.0885	5.78	1
11031	123789-HxCDD	19408-74-3	3.05	JB	0.0840	5.78	1
11031	1234678-HpCDD	35822-46-9	67.6	B	0.115	5.78	1
11031	OCDD	3268-87-9	1,170	B	0.114	11.6	1
11031	2378-TCDF	51207-31-9	0.389	JB	0.0987	1.16	1
11031	12378-PeCDF	57117-41-6	0.416	JB	0.0404	5.78	1
11031	23478-PeCDF	57117-31-4	0.270	JB	0.0368	5.78	1
11031	123478-HxCDF	70648-26-9	0.494	JB	0.0569	5.78	1
11031	123678-HxCDF	57117-44-9	0.345	JBQ	0.0547	5.78	1
11031	123789-HxCDF	72918-21-9	1.27	JB	0.0527	5.78	1
11031	234678-HxCDF	60851-34-5	0.484	JB	0.0495	5.78	1
11031	1234678-HpCDF	67562-39-4	5.69	JB	0.0439	5.78	1
11031	1234789-HpCDF	55673-89-7	0.401	JBQ	0.0472	5.78	1
11031	OCDF	39001-02-0	17.2	B	0.0422	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 01:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0789	JB	0.0149	1.10	1
11031	12378-PeCDD	40321-76-4	0.526	JB	0.0444	5.50	1
11031	123478-HxCDD	39227-28-6	0.817	J	0.0501	5.50	1
11031	123678-HxCDD	57653-85-7	3.25	JB	0.0519	5.50	1
11031	123789-HxCDD	19408-74-3	2.34	JB	0.0492	5.50	1
11031	1234678-HpCDD	35822-46-9	95.1	B	0.119	5.50	1
11031	OCDD	3268-87-9	1,510	B	0.0859	11.0	1
11031	2378-TCDF	51207-31-9	0.255	JB	0.0562	1.10	1
11031	12378-PeCDF	57117-41-6	0.560	JB	0.0328	5.50	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0295	5.50	1
11031	123478-HxCDF	70648-26-9	0.633	JB	0.0383	5.50	1
11031	123678-HxCDF	57117-44-9	0.454	JB	0.0367	5.50	1
11031	123789-HxCDF	72918-21-9	1.25	JB	0.0398	5.50	1
11031	234678-HxCDF	60851-34-5	0.727	JB	0.0365	5.50	1
11031	1234678-HpCDF	67562-39-4	7.10	B	0.0331	5.50	1
11031	1234789-HpCDF	55673-89-7	0.544	JB	0.0397	5.50	1
11031	OCDF	39001-02-0	25.7	B	0.0310	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 02:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226 JBQ	0.0179	1.16	1
11031	12378-PeCDD	40321-76-4	0.0160 U	0.0160	5.82	1
11031	123478-HxCDD	39227-28-6	0.0159 U	0.0159	5.82	1
11031	123678-HxCDD	57653-85-7	0.0208 JBQ	0.0166	5.82	1
11031	123789-HxCDD	19408-74-3	0.0386 JBQ	0.0152	5.82	1
11031	1234678-HpCDD	35822-46-9	0.535 JB	0.0296	5.82	1
11031	OCDD	3268-87-9	3.17 JB	0.0255	11.6	1
11031	2378-TCDF	51207-31-9	0.0142 U	0.0142	1.16	1
11031	12378-PeCDF	57117-41-6	0.00853 U	0.00853	5.82	1
11031	23478-PeCDF	57117-31-4	0.0418 JBQ	0.00770	5.82	1
11031	123478-HxCDF	70648-26-9	0.0134 JBQ	0.00912	5.82	1
11031	123678-HxCDF	57117-44-9	0.0137 JBQ	0.00818	5.82	1
11031	123789-HxCDF	72918-21-9	0.0312 JBQ	0.00889	5.82	1
11031	234678-HxCDF	60851-34-5	0.0106 JBQ	0.00818	5.82	1
11031	1234678-HpCDF	67562-39-4	0.0675 JBQ	0.0145	5.82	1
11031	1234789-HpCDF	55673-89-7	0.0243 JB	0.0191	5.82	1
11031	OCDF	39001-02-0	0.174 JBQ	0.0329	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 03:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0435 JBQ	0.0183	1.23	1
11031	12378-PeCDD	40321-76-4	0.0314 JBQ	0.0192	6.14	1
11031	123478-HxCDD	39227-28-6	0.0515 JQ	0.0333	6.14	1
11031	123678-HxCDD	57653-85-7	0.0656 JBQ	0.0340	6.14	1
11031	123789-HxCDD	19408-74-3	0.0711 JBQ	0.0320	6.14	1
11031	1234678-HpCDD	35822-46-9	0.582 JBQ	0.0489	6.14	1
11031	OCDD	3268-87-9	1.59 JB	0.0396	12.3	1
11031	2378-TCDF	51207-31-9	0.0159 U	0.0159	1.23	1
11031	12378-PeCDF	57117-41-6	0.0296 JB	0.0115	6.14	1
11031	23478-PeCDF	57117-31-4	0.0732 JB	0.0103	6.14	1
11031	123478-HxCDF	70648-26-9	0.0595 JB	0.0155	6.14	1
11031	123678-HxCDF	57117-44-9	0.0321 JB	0.0138	6.14	1
11031	123789-HxCDF	72918-21-9	0.0693 JBQ	0.0150	6.14	1
11031	234678-HxCDF	60851-34-5	0.0411 JBQ	0.0138	6.14	1
11031	1234678-HpCDF	67562-39-4	0.129 JBQ	0.0195	6.14	1
11031	1234789-HpCDF	55673-89-7	0.0876 JBQ	0.0263	6.14	1
11031	OCDF	39001-02-0	0.273 JB	0.0399	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 07:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11159162401A	Sample number(s): 6301497-6301500,6301507,6301509-6301510								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402B	Sample number(s): 6301501-6301506,6301508								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161004	Sample number(s): 6301497-6301510								
2378-TCDD	0.0293 J	0.0208	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0393 J	0.0207	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0220 U	0.0220	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0749 J	0.0226	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0576 J	0.0222	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.392 J	0.0365	5.00	ng/kg	87		70-140		
OCDD	0.908 J	0.0402	10.0	ng/kg	90		78-144		
2378-TCDF	0.0325 J	0.0178	1.00	ng/kg	87		75-158		
12378-PeCDF	0.0495 J	0.0110	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0792 J	0.0109	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0820 J	0.0170	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0553 J	0.0157	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0995 J	0.0173	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0978 J	0.0154	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.236 J	0.0145	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.107 J	0.0220	5.00	ng/kg	91		78-138		
OCDF	0.347 J	0.0453	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11159162401A	Sample number(s): 6301497-6301500,6301507,6301509-6301510 BKG: P301485								
Moisture Content by 160.3						15.6	15.8	1	20
Batch number: 11160162402B	Sample number(s): 6301501-6301506,6301508 BKG: P301476								
Moisture Content by 160.3						9.5	9.8	2	20
Batch number: 11161004	Sample number(s): 6301497-6301510 UNSPK: 6301501								
2378-TCDD	84	84	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	89	70-142	2	25				
123478-HxCDD	90	90	70-164	1	25				
123678-HxCDD	92	92	76-134	1	25				
123789-HxCDD	88	90	64-162	3	25				
1234678-HpCDD	172*	197*	70-140	14	25				
OCDD	781*	986*	78-144	23	25				
2378-TCDF	89	86	75-158	2	25				
12378-PeCDF	87	89	80-134	3	25				
23478-PeCDF	90	89	68-160	0	25				
123478-HxCDF	92	93	72-134	3	25				
123678-HxCDF	91	92	84-130	1	25				
123789-HxCDF	91	91	78-130	2	25				
234678-HxCDF	93	92	70-156	0	25				
1234678-HpCDF	95	97	82-122	3	25				
1234789-HpCDF	91	91	78-138	1	25				
OCDF	101	103	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11161004

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6301497	73	61	69	70	70	70
6301498	73	63	70	72	70	67
6301499	73	64	69	69	69	72
6301500	78	68	74	74	73	73
6301501	75	68	71	72	71	71
6301502	74	65	70	72	70	74
6301503	74	67	70	72	72	76
6301504	84	77	82	85	83	86
6301505	77	70	69	69	71	76
6301506	63	59	57	58	59	64
6301507	75	68	64	64	69	76
6301508	73	68	68	68	69	74
6301509	67	65	63	66	66	73
6301510	66	63	66	69	69	77
Blank	73	68	71	76	76	81
MS	74	65	70	72	70	74
MSD	74	67	70	72	72	76
OPR	60	57	66	69	67	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Surrogate Quality Control

6301497	63	59	48	83	66	73
6301498	65	59	49	81	67	75
6301499	65	60	51	82	69	71
6301500	68	63	52	86	71	77
6301501	67	59	48	85	71	75
6301502	69	62	54	82	70	75
6301503	71	64	56	82	71	75
6301504	83	72	60	93	81	85
6301505	72	73	68	84	77	76
6301506	62	62	60	73	63	64
6301507	70	75	74	81	74	75
6301508	75	74	72	83	74	76
6301509	79	69	63	81	72	73
6301510	80	71	66	81	70	76
Blank	83	66	53	91	74	84
MS	69	62	54	82	70	75
MSD	71	64	56	82	71	75
OPR	72	56	46	77	62	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6301497	73	74	65	53	67	62
6301498	72	73	66	55	67	64
6301499	71	72	66	56	68	64
6301500	75	76	70	57	71	68
6301501	72	74	67	53	71	69
6301502	72	75	69	61	68	68
6301503	74	76	71	63	68	69
6301504	86	86	80	68	77	79
6301505	74	76	82	85	70	70
6301506	62	65	68	68	58	59
6301507	71	75	80	79	67	67
6301508	72	75	79	80	65	67
6301509	70	74	77	74	60	66
6301510	74	75	80	77	58	63
Blank	80	82	77	64	66	71
MS	72	75	69	61	68	68
MSD	74	76	71	63	68	69
OPR	70	72	67	55	54	58
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct # 13013 LI # 6301497-510 GR # 1249135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-SS Sleeve			X	X																
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-SS Sleeve			X	X																
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-SS Sleeve			X	X																
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-SS Sleeve			X	X																
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	2-SS Sleeve			X	X																MS/MSD
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	1-SS Sleeve			X	X																
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	1-SS Sleeve			X	X																
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	1-SS Sleeve			X	X																
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-SS Sleeve			X	X																
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	1-SS Sleeve			X	X																

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	05/27/2011 / 1700	5/28/11 900	Laboratory:
Received by: (Signature)	Date/Time	Airbill No.(s)	Lancaster Laboratories, Inc.

Acct# 13613 LL# 6301497-510 GR# 1249135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-003-SA8N-SB-4.5	5.27.11	0905	SOIL	NONE	4-Encores										X	X											
SL-003-SA8N-SB-4.0-5.0	5.27.11	0910	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-003-SA8N-SB-9.0-10.0	5.27.11	0930	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
TB-052711	5.27.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*) — Date/Time: 05/27/2011 / 1700

Received for Laboratory by: (*Signature*) 5/28/11 900

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8754 3340 1890, 1880

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/07/2011
Group Number: 1250151
SDG: DX099
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA5DN-SB-4.0-5.0 Soil	6308048
SL-022-SA5DN-SB-15.0-16.0 Soil	6308049
SL-053-SA5DN-SB-4.0-5.0 Soil	6308050
SL-053-SA5DN-SB-11.5-12.5 Soil	6308051
SL-079-SA8N-SB-4.0-5.0 Soil	6308052
SL-079-SA8N-SB-9.0-10.0 Soil	6308053
SL-133-SA8N-SB-4.0-5.0 Soil	6308054

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.12	1
11031	12378-PeCDD	40321-76-4	0.0754	JQ	0.0178	5.60	1
11031	123478-HxCDD	39227-28-6	0.0595	JQ	0.0213	5.60	1
11031	123678-HxCDD	57653-85-7	0.106	JB	0.0210	5.60	1
11031	123789-HxCDD	19408-74-3	0.172	JB	0.0201	5.60	1
11031	1234678-HpCDD	35822-46-9	0.721	JB	0.0428	5.60	1
11031	OCDD	3268-87-9	4.47	JB	0.0259	11.2	1
11031	2378-TCDF	51207-31-9	0.0130	U	0.0130	1.12	1
11031	12378-PeCDF	57117-41-6	0.0564	JBQ	0.00731	5.60	1
11031	23478-PeCDF	57117-31-4	0.0766	JBQ	0.00696	5.60	1
11031	123478-HxCDF	70648-26-9	0.0439	JB	0.0121	5.60	1
11031	123678-HxCDF	57117-44-9	0.0572	JB	0.0110	5.60	1
11031	123789-HxCDF	72918-21-9	0.145	JBQ	0.0137	5.60	1
11031	234678-HxCDF	60851-34-5	0.0427	JBQ	0.0114	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0762	JB	0.0128	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0596	JBQ	0.0197	5.60	1
11031	OCDF	39001-02-0	0.176	JBQ	0.0372	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 06:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0259	JQ	0.0189	1.07	1
11031	12378-PeCDD	40321-76-4	0.0982	JQ	0.0177	5.33	1
11031	123478-HxCDD	39227-28-6	0.121	JQ	0.0175	5.33	1
11031	123678-HxCDD	57653-85-7	0.113	JB	0.0187	5.33	1
11031	123789-HxCDD	19408-74-3	0.154	JB	0.0176	5.33	1
11031	1234678-HpCDD	35822-46-9	0.590	JBQ	0.0329	5.33	1
11031	OCDD	3268-87-9	1.99	JB	0.0287	10.7	1
11031	2378-TCDF	51207-31-9	0.0265	J	0.0131	1.07	1
11031	12378-PeCDF	57117-41-6	0.103	JB	0.00812	5.33	1
11031	23478-PeCDF	57117-31-4	0.137	JB	0.00747	5.33	1
11031	123478-HxCDF	70648-26-9	0.140	JBQ	0.0148	5.33	1
11031	123678-HxCDF	57117-44-9	0.120	JBQ	0.0135	5.33	1
11031	123789-HxCDF	72918-21-9	0.135	JB	0.0150	5.33	1
11031	234678-HxCDF	60851-34-5	0.131	JB	0.0147	5.33	1
11031	1234678-HpCDF	67562-39-4	0.170	JB	0.0115	5.33	1
11031	1234789-HpCDF	55673-89-7	0.149	JBQ	0.0167	5.33	1
11031	OCDF	39001-02-0	0.329	JB	0.0339	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-022-SA5DN-SB-15.0-16.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 07:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0177 U	0.0177	1.15	1
11031	12378-PeCDD	40321-76-4	0.0160 U	0.0160	5.77	1
11031	123478-HxCDD	39227-28-6	0.0165 U	0.0165	5.77	1
11031	123678-HxCDD	57653-85-7	0.0738 JBQ	0.0167	5.77	1
11031	123789-HxCDD	19408-74-3	0.104 JBQ	0.0155	5.77	1
11031	1234678-HpCDD	35822-46-9	0.689 JB	0.0374	5.77	1
11031	OCDD	3268-87-9	4.65 JB	0.0278	11.5	1
11031	2378-TCDF	51207-31-9	0.0132 U	0.0132	1.15	1
11031	12378-PeCDF	57117-41-6	0.0170 JB	0.00773	5.77	1
11031	23478-PeCDF	57117-31-4	0.0319 JBQ	0.00761	5.77	1
11031	123478-HxCDF	70648-26-9	0.0117 JBQ	0.00867	5.77	1
11031	123678-HxCDF	57117-44-9	0.0219 JBQ	0.00796	5.77	1
11031	123789-HxCDF	72918-21-9	0.113 JBQ	0.00913	5.77	1
11031	234678-HxCDF	60851-34-5	0.0129 JBQ	0.00796	5.77	1
11031	1234678-HpCDF	67562-39-4	0.0476 JBQ	0.00937	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0232 JBQ	0.0137	5.77	1
11031	OCDF	39001-02-0	0.127 JB	0.0326	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 08:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0185 U	0.0185	1.08	1
11031	12378-PeCDD	40321-76-4	0.0176 JQ	0.0146	5.42	1
11031	123478-HxCDD	39227-28-6	0.0147 U	0.0147	5.42	1
11031	123678-HxCDD	57653-85-7	0.0402 JBQ	0.0150	5.42	1
11031	123789-HxCDD	19408-74-3	0.0651 JBQ	0.0133	5.42	1
11031	1234678-HpCDD	35822-46-9	0.492 JB	0.0275	5.42	1
11031	OCDD	3268-87-9	1.55 JB	0.0297	10.8	1
11031	2378-TCDF	51207-31-9	0.0100 U	0.0100	1.08	1
11031	12378-PeCDF	57117-41-6	0.0291 JBQ	0.00625	5.42	1
11031	23478-PeCDF	57117-31-4	0.0665 JB	0.00603	5.42	1
11031	123478-HxCDF	70648-26-9	0.0417 JBQ	0.00759	5.42	1
11031	123678-HxCDF	57117-44-9	0.0284 JB	0.00670	5.42	1
11031	123789-HxCDF	72918-21-9	0.0405 JB	0.00770	5.42	1
11031	234678-HxCDF	60851-34-5	0.0233 JB	0.00658	5.42	1
11031	1234678-HpCDF	67562-39-4	0.0476 JB	0.00759	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0238 JBQ	0.0116	5.42	1
11031	OCDF	39001-02-0	0.127 JB	0.0276	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 09:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 U	0.0224	1.14	1
11031	12378-PeCDD	40321-76-4	0.0348 JQ	0.0148	5.69	1
11031	123478-HxCDD	39227-28-6	0.0155 JQ	0.0154	5.69	1
11031	123678-HxCDD	57653-85-7	0.0345 JBQ	0.0161	5.69	1
11031	123789-HxCDD	19408-74-3	0.0437 JBQ	0.0153	5.69	1
11031	1234678-HpCDD	35822-46-9	0.559 JBQ	0.0292	5.69	1
11031	OCDD	3268-87-9	1.14 JB	0.0323	11.4	1
11031	2378-TCDF	51207-31-9	0.0130 U	0.0130	1.14	1
11031	12378-PeCDF	57117-41-6	0.0211 JBQ	0.00815	5.69	1
11031	23478-PeCDF	57117-31-4	0.0498 JB	0.00758	5.69	1
11031	123478-HxCDF	70648-26-9	0.0150 JBQ	0.00838	5.69	1
11031	123678-HxCDF	57117-44-9	0.0203 JBQ	0.00781	5.69	1
11031	123789-HxCDF	72918-21-9	0.0221 JBQ	0.00896	5.69	1
11031	234678-HxCDF	60851-34-5	0.0121 JBQ	0.00804	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0435 JB	0.00987	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0140 JBQ	0.0139	5.69	1
11031	OCDF	39001-02-0	0.0709 JB	0.0299	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-079-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 10:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0437	JQ	0.0214	1.16	1
11031	12378-PeCDD	40321-76-4	0.202	J	0.0188	5.80	1
11031	123478-HxCDD	39227-28-6	0.0872	J	0.0177	5.80	1
11031	123678-HxCDD	57653-85-7	0.111	JB	0.0185	5.80	1
11031	123789-HxCDD	19408-74-3	0.128	JB	0.0182	5.80	1
11031	1234678-HpCDD	35822-46-9	0.758	JBQ	0.0293	5.80	1
11031	OCDD	3268-87-9	3.23	JB	0.0281	11.6	1
11031	2378-TCDF	51207-31-9	0.0841	JQ	0.0141	1.16	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.00962	5.80	1
11031	23478-PeCDF	57117-31-4	0.237	JBQ	0.00927	5.80	1
11031	123478-HxCDF	70648-26-9	0.167	JB	0.0144	5.80	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0136	5.80	1
11031	123789-HxCDF	72918-21-9	0.107	JB	0.0140	5.80	1
11031	234678-HxCDF	60851-34-5	0.0910	JB	0.0131	5.80	1
11031	1234678-HpCDF	67562-39-4	0.122	JB	0.00904	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0482	JB	0.0133	5.80	1
11031	OCDF	39001-02-0	0.203	JB	0.0203	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-079-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 11:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0477	J	0.0190	1.15	1
11031	12378-PeCDD	40321-76-4	0.280	JQ	0.0184	5.74	1
11031	123478-HxCDD	39227-28-6	0.164	J	0.0190	5.74	1
11031	123678-HxCDD	57653-85-7	0.152	JB	0.0199	5.74	1
11031	123789-HxCDD	19408-74-3	0.165	JB	0.0193	5.74	1
11031	1234678-HpCDD	35822-46-9	1.07	JB	0.0298	5.74	1
11031	OCDD	3268-87-9	13.7	B	0.0277	11.5	1
11031	2378-TCDF	51207-31-9	0.0914	J	0.0289	1.15	1
11031	12378-PeCDF	57117-41-6	0.338	JB	0.0112	5.74	1
11031	23478-PeCDF	57117-31-4	0.279	JBQ	0.0106	5.74	1
11031	123478-HxCDF	70648-26-9	0.227	JB	0.0206	5.74	1
11031	123678-HxCDF	57117-44-9	0.219	JB	0.0188	5.74	1
11031	123789-HxCDF	72918-21-9	0.167	JB	0.0199	5.74	1
11031	234678-HxCDF	60851-34-5	0.137	JBQ	0.0188	5.74	1
11031	1234678-HpCDF	67562-39-4	0.360	JB	0.0135	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0787	JBQ	0.0206	5.74	1
11031	OCDF	39001-02-0	0.570	JB	0.0286	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 12:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165162401B	Sample number(s): 6308050-6308051								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162402A	Sample number(s): 6308048-6308049,6308052-6308054								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11169001	Sample number(s): 6308048-6308054								
2378-TCDD	0.0186 U	0.0186	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0176 U	0.0176	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0267 U	0.0267	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0621 J	0.0282	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0839 J	0.0266	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.479 J	0.0498	5.00	ng/kg	90		70-140		
OCDD	1.04 J	0.0434	10.0	ng/kg	92		78-144		
2378-TCDF	0.0135 U	0.0135	1.00	ng/kg	90		75-158		
12378-PeCDF	0.0277 J	0.00790	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0481 J	0.00740	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0392 J	0.0142	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0252 J	0.0128	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0457 J	0.0144	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0179 J	0.0126	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0762 J	0.0192	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0506 J	0.0260	5.00	ng/kg	92		78-138		
OCDF	0.246 J	0.0420	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165162401B	Sample number(s): 6308050-6308051 BKG: P312177								
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11174162402A	Sample number(s): 6308048-6308049,6308052-6308054 BKG: P309733								
Moisture Content by 160.3						12.2	12.2	1	20
Batch number: 11169001	Sample number(s): 6308048-6308054 UNSPK: P309771								
2378-TCDD	83	84	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	90	70-142	1	25				
123478-HxCDD	91	90	70-164	0	25				
123678-HxCDD	88	90	76-134	3	25				
123789-HxCDD	89	89	64-162	0	25				
1234678-HpCDD	88	89	70-140	1	25				
OCDD	89	86	78-144	4	25				
2378-TCDF	88	87	75-158	1	25				
12378-PeCDF	88	89	80-134	2	25				
23478-PeCDF	87	89	68-160	2	25				
123478-HxCDF	91	90	72-134	0	25				
123678-HxCDF	89	90	84-130	1	25				
123789-HxCDF	90	93	78-130	3	25				
234678-HxCDF	91	92	70-156	1	25				
1234678-HpCDF	88	89	82-122	1	25				
1234789-HpCDF	90	90	78-138	0	25				
OCDF	91	91	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11169001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6308048	67	69	72	78	75	76
6308049	59	66	73	77	75	81
6308050	70	72	72	77	77	78
6308051	66	69	68	74	76	78
6308052	62	66	70	75	73	75
6308053	76	77	82	86	85	91
6308054	66	70	76	82	79	86
Blank	66	70	74	79	78	78
MS	60	65	64	67	71	74
MSD	65	69	71	77	75	80
OPR	64	68	70	77	76	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6308048	89	69	63	82	71	78
6308049	90	72	67	83	68	77
6308050	86	71	64	87	75	80
6308051	88	68	58	86	72	78
6308052	81	69	60	80	68	75
6308053	97	82	74	99	80	87
6308054	93	75	66	88	73	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Surrogate Quality Control

Blank	88	76	71	91	72	81
MS	78	69	65	81	67	73
MSD	87	73	68	85	73	79
OPR	91	71	66	84	72	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6308048	76	79	81	77	63	72
6308049	76	78	81	78	56	65
6308050	78	82	80	75	66	74
6308051	76	82	79	71	63	72
6308052	73	76	78	68	59	65
6308053	86	87	92	85	72	78
6308054	80	81	83	77	62	71
Blank	79	82	83	81	62	70
MS	72	75	76	74	55	65
MSD	77	81	84	78	61	71
OPR	78	81	83	80	59	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Work# 13013 LL# 430808-54 GR# 1250151

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: 6-6-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-022-SA5DN-SB-4.5	06.06.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-4.0-5.0	06.06.11	1140	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-022-SA5DN-SB-15.5	06.06.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-15.0-16.0	06.06.11	1150	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-053-SA5DN-SB-4.5	06.06.11	1545	SOIL	NONE	4-Encores										X	X											
SL-053-SA5DN-SB-4.0-5.0	06.06.11	1550	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-053-SA5DN-SB-11.5-12.5	06.06.11	1600	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-079-SA8N-SB-4.5	06.06.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-4.0-5.0	06.06.11	1205	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SB-9.5	06.06.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-9.0-10.0	06.06.11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA8N-SB-4.5	06.06.11	1615	SOIL	NONE	4-Encores										X	X	X										
SL-133-SA8N-SB-4.0-5.0	06.06.11	1615	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060611	06.06.11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/06/2011 / 1700	6/7/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9142, 9154	

→ SL-133-SA8N-SB-4.5 and SL-133-SA8N-SB-4.0-5.0 per bottle labels Confirmed by PH. NLM 6/8/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/08/2011
Group Number: 1250458
SDG: DE175
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5DN-SB-4.0-5.0 Soil	6309733
SL-024-SA5DN-SB-4.0-5.0MS Soil	6309734
SL-024-SA5DN-SB-4.0-5.0MSD Soil	6309735
SL-024-SA5DN-SB-4.0-5.0DUP Soil	6309736
SL-024-SA5DN-SB-19.0-20.0 Soil	6309737
SL-026-SA5DN-SB-4.0-5.0 Soil	6309738
SL-026-SA5DN-SB-17.0-18.0 Soil	6309739
SL-036-SA5DN-SB-4.0-5.0 Soil	6309740
SL-036-SA5DN-SB-9.0-10.0 Soil	6309741
DUP13-SA5DN-QC-060711 Soil	6309742
SL-071-SA8N-SB-2.0-3.0 Soil	6309743
SL-122-SA8N-SB-2.0-3.0 Soil	6309744
SL-140-SA8N-SB-3.0-4.0 Soil	6309745
SL-133-SA8N-SB-7.0-8.0 Soil	6309746
TB-060711 Water	6309747
EB15-SA5DN-SB-060711 Water	6309748

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

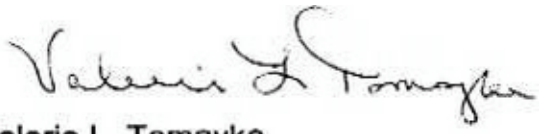
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.20	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.68	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.62	22.3		1
07914	Boron	7440-42-8	12.7		0.402	5.58		1
01650	Calcium	7440-70-2	13,800		6.84	22.3		1
01654	Iron	7439-89-6	34,600		26.3	112		5
01656	Lithium	7439-93-2	24.8		0.25	2.2		1
01657	Magnesium	7439-95-4	7,490		2.84	11.2		1
06958	Manganese	7439-96-5	365		0.0871	0.558		1
10145	Phosphorus	7723-14-0	357		0.625	11.2		1
01662	Potassium	7440-09-7	3,130		20.1	55.8		1
01667	Sodium	7440-23-5	438		41.6	112		1
07968	Strontium	7440-24-6	45.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.60	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,410		0.0793	1.12		1
10146	Zirconium	7440-67-7	3.58	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.255		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.61		0.0902	0.451		2
06126	Barium	7440-39-3	201		0.122	0.451		2
06127	Beryllium	7440-41-7	0.987		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.429		0.0451	0.113		2
06131	Chromium	7440-47-3	34.4		0.135	0.451		2
06132	Cobalt	7440-48-4	16.7		0.0226	0.113		2
06133	Copper	7440-50-8	19.5		0.0744	0.451		2
06135	Lead	7439-92-1	13.5		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.361		0.0564	0.113		2
06139	Nickel	7440-02-0	35.0		0.113	0.451		2
06141	Selenium	7782-49-2	0.119	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0547	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.424		0.0338	0.113		2
06148	Vanadium	7440-62-2	56.6		0.0248	0.113		2
06149	Zinc	7440-66-6	86.6		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	15.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 14:19	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:11	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 13:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 05:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 10:57	Joseph M Gambler	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
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17501 SDG#: DE175-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 11:58	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 05:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:01	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 08:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:09	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 20:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 22:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2

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SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 10:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 10:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 15:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	6.9	8.2		0.9
06192	Benzene	71-43-2	24	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	23	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	22	0.08	4.1		0.9
06192	Bromoform	75-25-2	20	0.41	4.1		0.9
06192	Bromomethane	74-83-9	19	0.26	4.1		0.9
06192	2-Butanone	78-93-3	160	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	23	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	24	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	23	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	25	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	23	0.11	4.1		0.9
06192	Chloroethane	75-00-3	17	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.31	4.1		0.9
06192	Chloroform	67-66-3	24	0.12	4.1		0.9
06192	Chloromethane	74-87-3	22	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	22	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	23	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	22	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	21	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	21	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	22	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	22	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	21	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	24	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	24	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	23	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	23	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	22	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	25	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	24	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	23	0.06	4.1		0.9
06192	Freon 113	76-13-1	26	0.11	4.1		0.9
06192	Freon 133a	75-88-7	21	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	20	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	110	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	24	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	23	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	110	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	25	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	24	0.07	4.1		0.9

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	22		0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	23		0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	24		0.21	4.1		0.9
06192	Toluene	108-88-3	23		0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.1		0.9
06192	Trichloroethene	79-01-6	23		0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	24		0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	21		0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	21		0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	48		0.17	4.1		0.9
06192	o-Xylene	95-47-6	23		0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120		4.6	14		20
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	854		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,300		19	190		1
04688	Acenaphthylene	208-96-8	1,400		19	190		1
04688	Aniline	62-53-3	890		190	570		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,800	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,300		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,500		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	1,000		190	570		1
04688	Benzyl alcohol	100-51-6	1,400		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,300		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		38	190		1
04688	4-Chloroaniline	106-47-8	900		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,200		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,200		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200		19	190		1
04688	2-Chlorophenol	95-57-8	1,400		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		38	190		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

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14420 Albemarle Point Place
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17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,300		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,300		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,000		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	980		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	980		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	930		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,400		19	190		1
04688	Diethylphthalate	84-66-2	1,300		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,300		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,300		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400		19	380		1
04688	Fluoranthene	206-44-0	1,300		19	190		1
04688	Fluorene	86-73-7	1,400		19	190		1
04688	Hexachlorobenzene	118-74-1	1,300		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,100		76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	990		190	570		1
04688	Hexachloroethane	67-72-1	920		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,300		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,300		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,200		19	190		1
04688	2-Methylphenol	95-48-7	1,300		38	190		1
04688	4-Methylphenol	106-44-5	1,200		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,200		19	190		1
04688	2-Nitroaniline	88-74-4	1,500		19	190		1
04688	3-Nitroaniline	99-09-2	1,400		38	190		1
04688	4-Nitroaniline	100-01-6	1,100		76	190		1
04688	Nitrobenzene	98-95-3	1,300		19	190		1
04688	2-Nitrophenol	88-75-5	1,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,100		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,300		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,300		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		19	190		1
04688	Pentachlorophenol	87-86-5	1,000		190	570		1
04688	Phenanthrene	85-01-8	1,300		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

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17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,400		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,200		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	28		0.75	1.9		1
10138	Acenaphthylene	208-96-8	26		0.38	1.9		1
10138	Anthracene	120-12-7	29		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	32		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	33		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	33		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	24		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	34		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	34		6.8	20		1
10138	Chrysene	218-01-9	31		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.75	1.9		1
10138	Diethylphthalate	84-66-2	29		6.8	20		1
10138	Dimethylphthalate	131-11-3	29		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.8	20		1
10138	Fluoranthene	206-44-0	30		0.75	1.9		1
10138	Fluorene	86-73-7	28		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	30		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	27		0.75	1.9		1
10138	Naphthalene	91-20-3	27		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	35		6.8	20		1
10138	Phenanthrene	85-01-8	28		0.75	1.9		1
10138	Pyrene	129-00-0	27		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.2		0.2	1.0		22.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	HMX	2691-41-0	2,000		110	340		1
10132	Nitrobenzene	98-95-3	2,500		46	140		1
10132	Nitroglycerin	55-63-0	50,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,500		110	140		1
10132	4-Nitrotoluene	99-99-0	2,300		91	140		1
10132	PETN	78-11-5	64,000		910	2,700		1
10132	RDX	121-82-4	1,900		57	140		1
10132	Tetryl	479-45-8	1,500		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,900		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		46	140		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.91	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.6		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.5		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.90	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	170		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	4.0		1
10318	o-Terphenyl	84-15-1	1.5	J	1.4	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,000		5.67	22.6		1
07914	Boron	7440-42-8	234		0.406	5.64		1
01650	Calcium	7440-70-2	11,200		6.91	22.6		1
01654	Iron	7439-89-6	37,300		26.6	113		5
01656	Lithium	7439-93-2	145		0.25	2.3		1
01657	Magnesium	7439-95-4	8,880		2.86	11.3		1
06958	Manganese	7439-96-5	495		0.0880	0.564		1
10145	Phosphorus	7723-14-0	495		0.631	11.3		1
01662	Potassium	7440-09-7	5,010		20.3	56.4		1
01667	Sodium	7440-23-5	1,540		42.1	113		1
07968	Strontium	7440-24-6	155		0.0699	0.564		1
06969	Tin	7440-31-5	392		1.13	11.3		1
06970	Titanium	7440-32-6	1,610		0.0793	1.12		1
10146	Zirconium	7440-67-7	118		0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.08		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.96		0.0902	0.451		2
06126	Barium	7440-39-3	194		0.122	0.451		2
06127	Beryllium	7440-41-7	1.93		0.0180	0.113		2
06128	Cadmium	7440-43-9	1.74		0.0451	0.113		2
06131	Chromium	7440-47-3	43.4		0.135	0.451		2
06132	Cobalt	7440-48-4	70.9		0.0226	0.113		2
06133	Copper	7440-50-8	28.6		0.0744	0.451		2
06135	Lead	7439-92-1	16.9		0.0117	0.226		2
06138	Molybdenum	7439-98-7	13.8		0.0564	0.113		2
06139	Nickel	7440-02-0	41.0		0.113	0.451		2
06141	Selenium	7782-49-2	2.54		0.0451	0.451		2
06142	Silver	7440-22-4	14.1		0.0135	0.113		2
06145	Thallium	7440-28-0	0.940		0.0338	0.113		2
06148	Vanadium	7440-62-2	63.4		0.0248	0.113		2
06149	Zinc	7440-66-6	92.4		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172		0.0030	0.106		1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	21.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.4		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	566		10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.4	J	22.8	114		100
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.4		0.20	0.56		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011	14:42	Chelsea B Eastep	0.9
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011	15:27	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011	14:10	Jason M Long	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011	15:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011	15:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011	13:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011	06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011	11:37	Joseph M Gambler	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 12:56	Elizabeth J Marin	22.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 06:32	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:11	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:34	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 22:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:15	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 15:41	Elyse P Brunstetter	100
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.1	8.5		0.94
06192	Benzene	71-43-2	22	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	19	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.94
06192	Bromoform	75-25-2	19	0.43	4.3		0.94
06192	Bromomethane	74-83-9	17	0.27	4.3		0.94
06192	2-Butanone	78-93-3	150	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	18	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	19	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	19	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.94
06192	Chloroethane	75-00-3	16	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.32	4.3		0.94
06192	Chloroform	67-66-3	22	0.13	4.3		0.94
06192	Chloromethane	74-87-3	21	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	18	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	19	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	19	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	18	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	18	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	19	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	24	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	23	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	22	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	20	0.06	4.3		0.94
06192	Freon 113	76-13-1	24	0.12	4.3		0.94
06192	Freon 133a	75-88-7	21	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	15	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	97	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	21	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	19	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	98	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	23	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	20	0.08	4.3		0.94

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	21		0.21	4.3		0.94
06192	Toluene	108-88-3	21		0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	14		0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	22		0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	19		0.29	4.3		0.94
06192	Trichloroethene	79-01-6	21		0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	22		0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	18		0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	19		0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	21		0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	42		0.18	4.3		0.94
06192	o-Xylene	95-47-6	20		0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		4.9	15		21.55
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	876		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,300		19	190		1
04688	Acenaphthylene	208-96-8	1,400		19	190		1
04688	Aniline	62-53-3	880		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	2,100	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,400		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	750		190	560		1
04688	Benzyl alcohol	100-51-6	1,400		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,400		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		37	190		1
04688	4-Chloroaniline	106-47-8	1,000		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,100		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200		19	190		1
04688	2-Chlorophenol	95-57-8	1,300		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		37	190		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,400		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,400		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	980		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	940		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	950		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	870		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,400		19	190		1
04688	Diethylphthalate	84-66-2	1,300		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,300		37	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		37	190		1
04688	Dimethylphthalate	131-11-3	1,300		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400		19	370		1
04688	Fluoranthene	206-44-0	1,300		19	190		1
04688	Fluorene	86-73-7	1,400		19	190		1
04688	Hexachlorobenzene	118-74-1	1,400		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,000		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	1,000		190	560		1
04688	Hexachloroethane	67-72-1	850		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,300		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,300		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,200		19	190		1
04688	2-Methylphenol	95-48-7	1,300		37	190		1
04688	4-Methylphenol	106-44-5	1,200		37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,200		19	190		1
04688	2-Nitroaniline	88-74-4	1,500		19	190		1
04688	3-Nitroaniline	99-09-2	1,400		37	190		1
04688	4-Nitroaniline	100-01-6	1,200		75	190		1
04688	Nitrobenzene	98-95-3	1,300		19	190		1
04688	2-Nitrophenol	88-75-5	1,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,000		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,300		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		19	190		1
04688	Pentachlorophenol	87-86-5	780		190	560		1
04688	Phenanthrene	85-01-8	1,300		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

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17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,100		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26		0.75	1.9		1
10138	Acenaphthylene	208-96-8	24		0.37	1.9		1
10138	Anthracene	120-12-7	26		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	29		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	30		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	31		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	23		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	31		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	33		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	32		6.7	20		1
10138	Chrysene	218-01-9	29		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	27		0.75	1.9		1
10138	Diethylphthalate	84-66-2	28		6.7	20		1
10138	Dimethylphthalate	131-11-3	27		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.7	20		1
10138	Fluoranthene	206-44-0	27		0.75	1.9		1
10138	Fluorene	86-73-7	26		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	27		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	24		0.75	1.9		1
10138	Naphthalene	91-20-3	25		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	29		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	31		6.7	20		1
10138	Phenanthrene	85-01-8	26		0.75	1.9		1
10138	Pyrene	129-00-0	26		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.6		0.2	1.0		22.01
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,600		67	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		45	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		45	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		45	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,600		45	130		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

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17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	2,200		110	330		1
10132	Nitrobenzene	98-95-3	2,500		45	130		1
10132	Nitroglycerin	55-63-0	53,000		890	2,700		1
10132	2-Nitrotoluene	88-72-2	2,400		89	130		1
10132	3-Nitrotoluene	99-08-1	2,600		110	130		1
10132	4-Nitrotoluene	99-99-0	2,400		89	130		1
10132	PETN	78-11-5	69,000		890	2,700		1
10132	RDX	121-82-4	2,000		56	130		1
10132	Tetryl	479-45-8	1,600		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		45	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		45	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	6,300		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	14		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	17		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.4		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.80	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	570		1
10501	Isopropanol	67-63-0	2,100		110	570		1
10501	Methanol	67-56-1	2,200		110	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	65		5.7	11		1
08283	Ethylene glycol	107-21-1	120		5.7	11		1
08283	Propylene glycol	57-55-6	120		5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.2	J	1.1	4.0		1
10318	o-Terphenyl	84-15-1	1.4	J	1.4	4.0		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	37,000		5.62	22.3		1
07914	Boron	7440-42-8	228		0.402	5.58		1
01650	Calcium	7440-70-2	8,780		6.84	22.3		1
01654	Iron	7439-89-6	37,300		26.3	112		5
01656	Lithium	7439-93-2	143		0.25	2.2		1
01657	Magnesium	7439-95-4	8,470		2.84	11.2		1
06958	Manganese	7439-96-5	666		0.0871	0.558		1
10145	Phosphorus	7723-14-0	494		0.625	11.2		1
01662	Potassium	7440-09-7	4,870		20.1	55.8		1
01667	Sodium	7440-23-5	1,530		41.6	112		1
07968	Strontium	7440-24-6	150		0.0692	0.558		1
06969	Tin	7440-31-5	386		1.12	11.2		1
06970	Titanium	7440-32-6	1,820		0.0809	1.14		1
10146	Zirconium	7440-67-7	116		0.938	5.58		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.32		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.3		0.0876	0.438		2
06126	Barium	7440-39-3	174		0.296	1.10		5
06127	Beryllium	7440-41-7	2.15		0.0175	0.110		2
06128	Cadmium	7440-43-9	1.97		0.0438	0.110		2
06131	Chromium	7440-47-3	51.9		0.131	0.438		2
06132	Cobalt	7440-48-4	86.6		0.0219	0.110		2
06133	Copper	7440-50-8	34.4		0.0723	0.438		2
06135	Lead	7439-92-1	20.6		0.0114	0.219		2
06138	Molybdenum	7439-98-7	15.2		0.0548	0.110		2
06139	Nickel	7440-02-0	52.5		0.110	0.438		2
06141	Selenium	7782-49-2	2.64		0.0438	0.438		2
06142	Silver	7440-22-4	15.5		0.0131	0.110		2
06145	Thallium	7440-28-0	1.05		0.0329	0.110		2
06148	Vanadium	7440-62-2	81.0		0.0241	0.110		2
06149	Zinc	7440-66-6	107		0.613	3.29		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.187		0.0032	0.111		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 15:04	Chelsea B Eastep	0.94
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 15:49	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 14:30	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 06:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 12:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 13:32	Elizabeth J Marin	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 07:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:20	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 23:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:19	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:46	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,100		5.62	22.3		1
07914	Boron	7440-42-8	14.6		0.402	5.58		1
01650	Calcium	7440-70-2	8,230		6.84	22.3		1
01654	Iron	7439-89-6	35,200		26.3	112		5
01656	Lithium	7439-93-2	26.7		0.25	2.2		1
01657	Magnesium	7439-95-4	7,410		2.84	11.2		1
06958	Manganese	7439-96-5	531		0.0871	0.558		1
10145	Phosphorus	7723-14-0	375		0.625	11.2		1
01662	Potassium	7440-09-7	3,190		20.1	55.8		1
01667	Sodium	7440-23-5	471		41.6	112		1
07968	Strontium	7440-24-6	42.9		0.0692	0.558		1
06969	Tin	7440-31-5	2.60	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,340		0.0793	1.12		1
10146	Zirconium	7440-67-7	5.87		0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.295		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.31		0.0893	0.447		2
06126	Barium	7440-39-3	200		0.121	0.447		2
06127	Beryllium	7440-41-7	1.10		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.354		0.0447	0.112		2
06131	Chromium	7440-47-3	38.1		0.134	0.447		2
06132	Cobalt	7440-48-4	13.1		0.0223	0.112		2
06133	Copper	7440-50-8	20.2		0.0737	0.447		2
06135	Lead	7439-92-1	13.7		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.364		0.0558	0.112		2
06139	Nickel	7440-02-0	31.7		0.112	0.447		2
06141	Selenium	7782-49-2	0.0994	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0483	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.441		0.0335	0.112		2
06148	Vanadium	7440-62-2	65.9		0.0246	0.112		2
06149	Zinc	7440-66-6	92.4		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:11	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 10:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 10:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 16:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1		6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.14	J	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.49	21.8		1
07914	Boron	7440-42-8	7.38		0.393	5.45		1
01650	Calcium	7440-70-2	16,200		6.68	21.8		1
01654	Iron	7439-89-6	19,500		5.14	21.8		1
01656	Lithium	7439-93-2	19.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,360		2.77	10.9		1
06958	Manganese	7439-96-5	135		0.0851	0.545		1
10145	Phosphorus	7723-14-0	331		0.611	10.9		1
01662	Potassium	7440-09-7	2,520		19.6	54.5		1
01667	Sodium	7440-23-5	182		40.7	109		1
07968	Strontium	7440-24-6	33.3		0.0676	0.545		1
06969	Tin	7440-31-5	2.30	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,200		0.0782	1.10		1
10146	Zirconium	7440-67-7	2.69	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0872	0.436		2
06126	Barium	7440-39-3	143		0.118	0.436		2
06127	Beryllium	7440-41-7	0.847		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.368		0.0436	0.109		2
06131	Chromium	7440-47-3	28.6		0.131	0.436		2
06132	Cobalt	7440-48-4	29.0		0.0218	0.109		2
06133	Copper	7440-50-8	16.3		0.0720	0.436		2
06135	Lead	7439-92-1	14.1		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.948		0.0545	0.109		2
06139	Nickel	7440-02-0	35.8		0.109	0.436		2
06141	Selenium	7782-49-2	0.0758	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0212	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.449		0.0327	0.109		2
06148	Vanadium	7440-62-2	62.9		0.0240	0.109		2
06149	Zinc	7440-66-6	87.3		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6309737
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-19.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:11	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:31	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:17	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:34	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 01:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 17:01	Joseph M Gambler	1

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SL-024-SA5DN-SB-19.0-20.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 14:08	Elizabeth J Marin	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:17	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 07:57	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:30	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 12:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 18:49	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 12:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 11:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:35	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1

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SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
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17502 SDG#: DE175-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 12:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 16:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.9	8.2		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.86
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.17	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.4	J	19.8	39.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

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Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
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17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

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17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.54	J	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.95	U	0.95	2.9		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.95	2.9		2
10199	EFH (C21-C30)	n.a.	20		0.95	2.9		2
10199	EFH (C30 - C40)	n.a.	36		0.95	2.9		2
10199	EFH (C8-C11)	n.a.	0.95	U	0.95	2.9		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.96	23.7		1
07914	Boron	7440-42-8	13.8		0.427	5.93		1
01650	Calcium	7440-70-2	6,520		7.27	23.7		1
01654	Iron	7439-89-6	32,500		15.5	119		5
01656	Lithium	7439-93-2	22.0		0.26	2.4		1
01657	Magnesium	7439-95-4	6,280		3.01	11.9		1
06958	Manganese	7439-96-5	491		0.0925	0.593		1
10145	Phosphorus	7723-14-0	263		0.664	11.9		1
01662	Potassium	7440-09-7	3,920		21.3	59.3		1
01667	Sodium	7440-23-5	406		44.2	119		1
07968	Strontium	7440-24-6	37.2		0.0735	0.593		1
06969	Tin	7440-31-5	2.75	J	1.19	11.9		1
06970	Titanium	7440-32-6	932		0.0834	1.17		1
10146	Zirconium	7440-67-7	2.93	J	0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.229	J	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.42		0.0939	0.470		2
06126	Barium	7440-39-3	160		0.127	0.470		2
06127	Beryllium	7440-41-7	0.987		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.333		0.0470	0.117		2
06131	Chromium	7440-47-3	30.6		0.141	0.470		2
06132	Cobalt	7440-48-4	10.7		0.0235	0.117		2
06133	Copper	7440-50-8	16.3		0.0775	0.470		2
06135	Lead	7439-92-1	11.5		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.524		0.0587	0.117		2
06139	Nickel	7440-02-0	24.5		0.117	0.470		2
06141	Selenium	7782-49-2	0.199	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0595	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.430		0.0352	0.117		2
06148	Vanadium	7440-62-2	48.2		0.0258	0.117		2
06149	Zinc	7440-66-6	82.0		0.658	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0278	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.24	1.2		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.60		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:34	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:51	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:52	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 02:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 02:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 14:45	Elizabeth J Marin	20.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 08:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:39	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 20:02	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 02:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/15/2011 12:38	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 12:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 16:38	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.93
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.1	J	18.1	36.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.74	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	37		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	170		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
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SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
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17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.38	21.4		1
07914	Boron	7440-42-8	7.23		0.385	5.35		1
01650	Calcium	7440-70-2	3,540		6.55	21.4		1
01654	Iron	7439-89-6	21,700		5.04	21.4		1
01656	Lithium	7439-93-2	24.2		0.24	2.1		1
01657	Magnesium	7439-95-4	3,910		2.72	10.7		1
06958	Manganese	7439-96-5	615		0.0834	0.535		1
10145	Phosphorus	7723-14-0	321		0.599	10.7		1
01662	Potassium	7440-09-7	2,080		19.2	53.5		1
01667	Sodium	7440-23-5	177		39.9	107		1
07968	Strontium	7440-24-6	20.2		0.0663	0.535		1
06969	Tin	7440-31-5	2.75	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,080		0.0759	1.07		1
10146	Zirconium	7440-67-7	2.26	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.49		0.0839	0.419		2
06126	Barium	7440-39-3	109		0.113	0.419		2
06127	Beryllium	7440-41-7	0.700		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.288		0.0419	0.105		2
06131	Chromium	7440-47-3	19.2		0.126	0.419		2
06132	Cobalt	7440-48-4	10.3		0.0210	0.105		2
06133	Copper	7440-50-8	11.1		0.0692	0.419		2
06135	Lead	7439-92-1	8.35		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.411		0.0524	0.105		2
06139	Nickel	7440-02-0	23.1		0.105	0.419		2
06141	Selenium	7782-49-2	0.0577	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0167	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.323		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.6		0.0231	0.105		2
06149	Zinc	7440-66-6	62.8		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5DN-SB-17.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:56	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:11	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 15:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 02:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 02:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 15:21	Elizabeth J Marin	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 10:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/14/2011 17:34	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 12:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 14:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 16:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5		6.9	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	1.1	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

*=This limit was used in the evaluation of the final result
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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.87
06192	Toluene	108-88-3	0.11	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	29.3	J	19.4	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.51	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		5.75	22.9		1
07914	Boron	7440-42-8	14.0		0.412	5.72		1
01650	Calcium	7440-70-2	19,500		7.01	22.9		1
01654	Iron	7439-89-6	34,600		10.8	45.7		2
01656	Lithium	7439-93-2	26.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,880		2.90	11.4		1
06958	Manganese	7439-96-5	364		0.0892	0.572		1
10145	Phosphorus	7723-14-0	204		0.640	11.4		1
01662	Potassium	7440-09-7	2,900		20.6	57.2		1
01667	Sodium	7440-23-5	540		42.7	114		1
07968	Strontium	7440-24-6	48.3		0.0709	0.572		1
06969	Tin	7440-31-5	2.56	J	1.14	11.4		1
06970	Titanium	7440-32-6	987		0.0812	1.14		1
10146	Zirconium	7440-67-7	3.20	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.64		0.0906	0.453		2
06126	Barium	7440-39-3	168		0.122	0.453		2
06127	Beryllium	7440-41-7	1.21		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.255		0.0453	0.113		2
06131	Chromium	7440-47-3	27.5		0.136	0.453		2
06132	Cobalt	7440-48-4	7.89		0.0227	0.113		2
06133	Copper	7440-50-8	12.2		0.0747	0.453		2
06135	Lead	7439-92-1	10.7		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.246		0.0566	0.113		2
06139	Nickel	7440-02-0	21.6		0.113	0.453		2
06141	Selenium	7782-49-2	0.0464	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0368	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.345		0.0340	0.113		2
06148	Vanadium	7440-62-2	43.6		0.0249	0.113		2
06149	Zinc	7440-66-6	55.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0032	0.111		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 17:19	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:31	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:28	Christopher D Meeks	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 15:28	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 03:40	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 15:58	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:27	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 11:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:58	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 19:13	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 13:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:55	Joanne M Gates	2
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 12:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 13:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 17:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.4		7.2	8.6		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.93
06192	Methylene Chloride	75-09-2	1.6	J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.93

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.93
06192	Toluene	108-88-3	0.14	J	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.9	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.85	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.69	22.6		1
07914	Boron	7440-42-8	12.3		0.408	5.66		1
01650	Calcium	7440-70-2	19,600		6.94	22.6		1
01654	Iron	7439-89-6	30,800		14.8	113		5
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,150		2.88	11.3		1
06958	Manganese	7439-96-5	220		0.0883	0.566		1
10145	Phosphorus	7723-14-0	201		0.634	11.3		1
01662	Potassium	7440-09-7	3,090		20.4	56.6		1
01667	Sodium	7440-23-5	449		42.2	113		1
07968	Strontium	7440-24-6	45.2		0.0702	0.566		1
06969	Tin	7440-31-5	2.70	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,020		0.0812	1.14		1
10146	Zirconium	7440-67-7	3.62	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0906	0.453		2
06126	Barium	7440-39-3	149		0.122	0.453		2
06127	Beryllium	7440-41-7	0.959		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.128		0.0453	0.113		2
06131	Chromium	7440-47-3	32.3		0.136	0.453		2
06132	Cobalt	7440-48-4	8.54		0.0226	0.113		2
06133	Copper	7440-50-8	15.9		0.0747	0.453		2
06135	Lead	7439-92-1	8.54		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.336		0.0566	0.113		2
06139	Nickel	7440-02-0	22.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.0453	U	0.0453	0.453		2
06142	Silver	7440-22-4	0.0712	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.362		0.0340	0.113		2
06148	Vanadium	7440-62-2	50.7		0.0249	0.113		2
06149	Zinc	7440-66-6	74.5		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 17:41	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:51	Jason M Long	21.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:32	Brian K Graham	1

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17506 SDG#: DE175-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 04:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 16:34	Elizabeth J Marin	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 12:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 19:38	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 13:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/15/2011 13:01	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 12:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 12:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 14:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:18	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	1.4	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.16	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	65.1		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.64	22.4		1
07914	Boron	7440-42-8	15.1		0.404	5.61		1
01650	Calcium	7440-70-2	8,480		6.88	22.4		1
01654	Iron	7439-89-6	36,000		26.4	112		5
01656	Lithium	7439-93-2	26.2		0.25	2.2		1
01657	Magnesium	7439-95-4	7,090		2.85	11.2		1
06958	Manganese	7439-96-5	567		0.0875	0.561		1
10145	Phosphorus	7723-14-0	413		0.628	11.2		1
01662	Potassium	7440-09-7	2,930		20.2	56.1		1
01667	Sodium	7440-23-5	476		41.8	112		1
07968	Strontium	7440-24-6	43.6		0.0695	0.561		1
06969	Tin	7440-31-5	2.80	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,250		0.0804	1.13		1
10146	Zirconium	7440-67-7	4.86	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.271		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.52		0.0889	0.444		2
06126	Barium	7440-39-3	180		0.120	0.444		2
06127	Beryllium	7440-41-7	0.931		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.344		0.0444	0.111		2
06131	Chromium	7440-47-3	32.9		0.133	0.444		2
06132	Cobalt	7440-48-4	12.6		0.0222	0.111		2
06133	Copper	7440-50-8	17.7		0.0733	0.444		2
06135	Lead	7439-92-1	13.2		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.333		0.0555	0.111		2
06139	Nickel	7440-02-0	28.5		0.111	0.444		2
06141	Selenium	7782-49-2	0.0730	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0599	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.386		0.0333	0.111		2
06148	Vanadium	7440-62-2	57.6		0.0244	0.111		2
06149	Zinc	7440-66-6	80.0		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:03	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:11	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 04:56	Gregory J Drahovsky	1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

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CDM Federal Programs Corp.
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17507 SDG#: DE175-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 17:11	Elizabeth J Marin	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:34	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 12:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:17	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:03	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 14:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:08	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

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17507 SDG#: DE175-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 14:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:05	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		25.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	33.0	J	17.8	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

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Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.27
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
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17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.51	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	7.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.38	21.4		1
07914	Boron	7440-42-8	6.69		0.385	5.35		1
01650	Calcium	7440-70-2	1,420		6.55	21.4		1
01654	Iron	7439-89-6	21,300		5.04	21.4		1
01656	Lithium	7439-93-2	29.4		0.24	2.1		1
01657	Magnesium	7439-95-4	4,410		2.72	10.7		1
06958	Manganese	7439-96-5	267		0.0834	0.535		1
10145	Phosphorus	7723-14-0	526		0.599	10.7		1
01662	Potassium	7440-09-7	3,050		19.2	53.5		1
01667	Sodium	7440-23-5	69.6	J	39.9	107		1
07968	Strontium	7440-24-6	10.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.53	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,260		0.0752	1.06		1
10146	Zirconium	7440-67-7	0.898	U	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.79		0.0839	0.419		2
06126	Barium	7440-39-3	128		0.113	0.419		2
06127	Beryllium	7440-41-7	0.786		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.168		0.0419	0.105		2
06131	Chromium	7440-47-3	19.6		0.126	0.419		2
06132	Cobalt	7440-48-4	7.01		0.0210	0.105		2
06133	Copper	7440-50-8	8.79		0.0692	0.419		2
06135	Lead	7439-92-1	9.46		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.962		0.0524	0.105		2
06139	Nickel	7440-02-0	14.4		0.105	0.419		2
06141	Selenium	7782-49-2	0.432		0.0419	0.419		2
06142	Silver	7440-22-4	0.0615	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.386		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.7		0.0231	0.105		2
06149	Zinc	7440-66-6	88.2		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.86	1.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:25	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:31	Jason M Long	25.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:41	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 04:22	Brian K Graham	1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 05:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 17:47	Elizabeth J Marin	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 13:36	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:28	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 23:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 15:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 17:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:07	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3		6.9	8.2		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.2		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.96
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.96

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.24	J	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.58
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	26.6	J	17.7	35.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.90	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.54	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.4		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.21	20.7		1
07914	Boron	7440-42-8	6.37		0.373	5.18		1
01650	Calcium	7440-70-2	2,890		6.34	20.7		1
01654	Iron	7439-89-6	21,000		4.87	20.7		1
01656	Lithium	7439-93-2	29.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,770		2.63	10.4		1
06958	Manganese	7439-96-5	298		0.0807	0.518		1
10145	Phosphorus	7723-14-0	552		0.580	10.4		1
01662	Potassium	7440-09-7	3,520		18.6	51.8		1
01667	Sodium	7440-23-5	61.0	J	38.6	104		1
07968	Strontium	7440-24-6	14.1		0.0642	0.518		1
06969	Tin	7440-31-5	2.41	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,290		0.0742	1.05		1
10146	Zirconium	7440-67-7	2.16	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0844	0.422		2
06126	Barium	7440-39-3	121		0.114	0.422		2
06127	Beryllium	7440-41-7	0.655		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.191		0.0422	0.106		2
06131	Chromium	7440-47-3	18.9		0.127	0.422		2
06132	Cobalt	7440-48-4	7.05		0.0211	0.106		2
06133	Copper	7440-50-8	10.4		0.0697	0.422		2
06135	Lead	7439-92-1	9.15		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.426		0.0528	0.106		2
06139	Nickel	7440-02-0	15.3		0.106	0.422		2
06141	Selenium	7782-49-2	0.159	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0650	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.336		0.0317	0.106		2
06148	Vanadium	7440-62-2	37.6		0.0232	0.106		2
06149	Zinc	7440-66-6	97.7		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.86	1.6		1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-122-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:47	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:51	Jason M Long	23.58
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 04:47	Brian K Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 06:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 18:24	Elizabeth J Marin	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 14:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:46	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:53	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 23:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:53	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7		6.3	7.6		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.22	J	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.7	J	18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.53	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.0	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.0	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.87	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.49	21.8		1
07914	Boron	7440-42-8	7.14		0.393	5.46		1
01650	Calcium	7440-70-2	2,690		6.69	21.8		1
01654	Iron	7439-89-6	22,900		5.14	21.8		1
01656	Lithium	7439-93-2	28.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,520		2.77	10.9		1
06958	Manganese	7439-96-5	275		0.0851	0.546		1
10145	Phosphorus	7723-14-0	393		0.611	10.9		1
01662	Potassium	7440-09-7	2,680		19.6	54.6		1
01667	Sodium	7440-23-5	75.3	J	40.7	109		1
07968	Strontium	7440-24-6	18.1		0.0677	0.546		1
06969	Tin	7440-31-5	2.42	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.0782	1.10		1
10146	Zirconium	7440-67-7	2.19	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0873	0.437		2
06126	Barium	7440-39-3	118		0.118	0.437		2
06127	Beryllium	7440-41-7	0.669		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.133		0.0437	0.109		2
06131	Chromium	7440-47-3	21.1		0.131	0.437		2
06132	Cobalt	7440-48-4	7.26		0.0218	0.109		2
06133	Copper	7440-50-8	7.98		0.0720	0.437		2
06135	Lead	7439-92-1	7.61		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.803		0.0546	0.109		2
06139	Nickel	7440-02-0	14.8		0.109	0.437		2
06141	Selenium	7782-49-2	0.295	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0370	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.328		0.0327	0.109		2
06148	Vanadium	7440-62-2	42.8		0.0240	0.109		2
06149	Zinc	7440-66-6	67.0		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.91	1.7		1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-140-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 19:09	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 20:11	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 05:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/26/2011 09:40	Chad A Moline	1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
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SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 19:01	Elizabeth J Marin	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 15:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 12:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 18:47	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:32	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 16:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 18:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:09	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		7.0	8.4		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	1.7	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.19	J	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.42	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.82	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	7.8		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.87	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.69	22.6		1
07914	Boron	7440-42-8	8.57		0.407	5.65		1
01650	Calcium	7440-70-2	5,510		6.93	22.6		1
01654	Iron	7439-89-6	25,300		5.33	22.6		1
01656	Lithium	7439-93-2	21.1		0.25	2.3		1
01657	Magnesium	7439-95-4	4,640		2.87	11.3		1
06958	Manganese	7439-96-5	254		0.0882	0.565		1
10145	Phosphorus	7723-14-0	177		0.633	11.3		1
01662	Potassium	7440-09-7	1,960		20.4	56.5		1
01667	Sodium	7440-23-5	135		42.2	113		1
07968	Strontium	7440-24-6	26.7		0.0701	0.565		1
06969	Tin	7440-31-5	2.87	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,240		0.0803	1.13		1
10146	Zirconium	7440-67-7	2.76	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.56		0.0896	0.448		2
06126	Barium	7440-39-3	109		0.121	0.448		2
06127	Beryllium	7440-41-7	0.873		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0793	J	0.0448	0.112		2
06131	Chromium	7440-47-3	21.6		0.134	0.448		2
06132	Cobalt	7440-48-4	6.64		0.0224	0.112		2
06133	Copper	7440-50-8	10.6		0.0739	0.448		2
06135	Lead	7439-92-1	10.0		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.238		0.0560	0.112		2
06139	Nickel	7440-02-0	15.4		0.112	0.448		2
06141	Selenium	7782-49-2	0.0507	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.130		0.0134	0.112		2
06145	Thallium	7440-28-0	0.346		0.0336	0.112		2
06148	Vanadium	7440-62-2	45.9		0.0246	0.112		2
06149	Zinc	7440-66-6	66.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.92	1.7		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-SA8N-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 19:31	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 20:31	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 05:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/26/2011 11:15	Chad A Moline	1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
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14420 Albemarle Point Place
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75-11 SDG#: DE175-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 19:37	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 15:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 23:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 12:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 19:12	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 18:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202B	06/21/2011 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202B	06/21/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201B	06/20/2011 16:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 18:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202B	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201B	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060711 Water
SSFL Area IV Collocated Soil Sampling
TB-060711

LLI Sample # WW 6309747
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-12 SDG#: DE175-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-060711 Water
SSFL Area IV Collocated Soil Sampling
TB-060711

LLI Sample # WW 6309747
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-12 SDG#: DE175-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:11	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 10:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 10:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:11	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11165A20A	06/14/2011 23:08	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11165A20A	06/14/2011 23:08	Laura M Krieger	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB15-SA5DN-SB-060711 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.71		0.526	1.05		1
	N-Nitrosodimethylamine is detected in the method blank at an estimated concentration of 1.84 ng/l. The blank value was not subtracted from the analytical result.							
	The analysis was repeated outside of the required hold time and N-Nitrosodimethylamine was again detected in the blank and sample. The data reported is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.60	J	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

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Analysis Report

Sample Description: EB15-SA5DN-SB-060711 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	230	J	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11159WAB026	06/21/2011 23:05	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB15-SA5DN-SB-060711 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11159WAB026	06/08/2011 13:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11165A20A	06/14/2011 23:30	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11165A20A	06/14/2011 23:30	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 21:23	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111590025A	06/10/2011 00:31	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111590025A	06/09/2011 09:05	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111590034A	06/11/2011 13:25	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111610019A	06/11/2011 01:40	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111600001A	06/09/2011 14:39	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111590032A	06/10/2011 17:38	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111590034A	06/09/2011 10:00	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	111590032A	06/09/2011 10:00	Catherine R Wiker	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11159196901C	06/09/2011 12:02	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:53	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111641AA	Sample number(s): 6309733-6309735,6309737-6309746									
Acetone	9.9		6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	106		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	102		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	86		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	103		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	112		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	105		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	110		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	105		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	109		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	113		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	109		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	105		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	104		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	106		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107		61-134		
Methylene Chloride	2.8	J	0.24	4.0	ug/kg	118		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107		77-120		
Toluene	0.10	J	0.08	4.0	ug/kg	105		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	107		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	103		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
Batch number: E111601AA	Sample number(s): 6309747									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102		80-123		
Batch number: E111611AA	Sample number(s): 6309733-6309735,6309737-6309746									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	108	70-130	7	30
Batch number: L111651AA	Sample number(s): 6309747									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11159WAB026	Sample number(s): 6309748									
N-Nitrosodimethylamine	1.84		0.500	1.00	ng/l	92	91	70-130	1	30
Batch number: 11160SLF026	Sample number(s): 6309733-6309735,6309737-6309746									
Acenaphthene	17	U	17.	170	ug/kg	89		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	90		75-122		
Aniline	170 U		170.	500	ug/kg	90		34-94		
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	93		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	91		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	114		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	110		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	117		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	124		67-125		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170		170.	500	ug/kg	82		68-111		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	87		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	97		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	81		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	84		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	118		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	77*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	74		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	89		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	90		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	90		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	90		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	80		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	74		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	115		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	87		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	80		66-117		
Naphthalene	17	U	17.	170	ug/kg	85		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	97		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	71		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	88		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	115		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	89		51-117		
Phenanthrene	17	U	17.	170	ug/kg	90		77-113		
Phenol	17	U	17.	170	ug/kg	82		58-112		
Pyrene	17	U	17.	170	ug/kg	86		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	88		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11161SLE026	Sample number(s): 6309733-6309735,6309737-6309746									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11167SLI026	Sample number(s): 6309733-6309735,6309737-6309746									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	88		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	85		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	104		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	85		56-121		
Batch number: 11160A34A	Sample number(s): 6309733-6309735,6309737-6309746									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74		67-119		
Batch number: 11165A20A	Sample number(s): 6309747-6309748									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	91	75-135	10	30
Batch number: 111640007A	Sample number(s): 6309733-6309735,6309737-6309746									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	111		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	99		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	81		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80 U	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100 U	U	100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80 U	U	80.	120	ug/kg	109		80-120		
PETN	800 U	U	800.	2,400	ug/kg	117		80-120		
RDX	50 U	U	50.	120	ug/kg	101		75-131		
Tetryl	61 U	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40 U	U	40.	120	ug/kg	110		77-137		
2,4,6-Trinitrotoluene	40 U	U	40.	120	ug/kg	116		80-120		
Batch number: 111640024A	Sample number(s): 6309748									
4-Amino-2,6-Dinitrotoluene	0.30 U	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20 U	U	0.20	0.60	ug/l	90	100	50-122	11	30
2,4-Diamino-6-nitrotoluene	0.20 U	U	0.20	0.60	ug/l	90	100	50-122	11	30
1,3-Dinitrobenzene	0.20 U	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65 U	U	0.65	2.0	ug/l	97	97	65-125	0	30
Nitrobenzene	0.20 U	U	0.20	0.60	ug/l	98	99	75-121	1	30
Nitroglycerin	5.2 U	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20 U	U	0.20	0.60	ug/l	97	98	74-120	1	30
3-Nitrotoluene	0.40 U	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60 U	U	0.60	1.2	ug/l	97	97	80-120	0	30
PETN	6.0 U	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20 U	U	0.20	0.60	ug/l	89	90	70-125	1	30
Tetryl	0.40 U	U	0.40	0.60	ug/l	82	83	72-141	1	30
1,3,5-Trinitrobenzene	0.20 U	U	0.20	0.60	ug/l	87	89	53-129	2	30
2,4,6-Trinitrotoluene	0.20 U	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111590025A	Sample number(s): 6309748									
25b Formaldehyde 8315A	10 U	U	10.	50	ug/l	94	104	69-130	10	30
Batch number: 111640006A	Sample number(s): 6309733-6309735,6309737-6309746									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 111660019A	Sample number(s): 6309737,6309740									
6a Perchlorate EPA 6850	2.1 U	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111620006A	Sample number(s): 6309733-6309735,6309737-6309746									
Aroclor 5432	1.0 U	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	U	1.0	3.3	ug/kg	109*	113*	36-106	4	30
Aroclor 5460	1.0 U	U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	U	0.33	1.7	ug/kg	108		72-120		
PCB-1221	0.33 U	U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	U	0.39	1.7	ug/kg	129		65-137		
PCB-1262	0.33 U	U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	U	0.33	1.7	ug/kg					
Batch number: 111590034A	Sample number(s): 6309748									
EFH (C12-C14)	0.10 U	U	0.10	0.60	mg/l	94	84	69-125	11	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	103	91	77-125	12	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	68-124	17	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	80-121	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	62	46-103	15	30
Batch number: 111610013A	Sample number(s): 6309733-6309735,6309737-6309746									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.43	J	0.40	1.2	mg/kg	91		69-132		
EFH (C30 - C40)	0.90	J	0.40	1.2	mg/kg	114		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		54-107		
Batch number: 111600001A	Sample number(s): 6309748									
Diethylene glycol	10	U	10.	100	mg/l	135*	115	78-126	16	20
Ethylene glycol	10	U	10.	100	mg/l	130*	105	80-124	21*	20
Propylene glycol	10	U	10.	100	mg/l	130*	105	80-120	21*	20
Batch number: 111600002A	Sample number(s): 6309733-6309735,6309737-6309746									
Diethylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	114		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Batch number: 111600024A	Sample number(s): 6309733-6309735,6309737-6309746									
Ethanol	100	U	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	85		75-125		
Methanol	100	U	100.	500	ug/kg	87		68-129		
Batch number: 111610019A	Sample number(s): 6309748									
Ethanol	200	U	200.	1,000	ug/l	92		66-132		
Isopropanol	200	U	200.	1,000	ug/l	88		75-125		
Methanol	200	U	200.	1,000	ug/l	96		71-140		
Batch number: 111590032A	Sample number(s): 6309748									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	79	77	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	92	89	75-125	3	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	89	87	75-125	2	20
Batch number: 111640015A	Sample number(s): 6309733-6309735,6309737-6309746									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 111595711006	Sample number(s): 6309733-6309746									
Mercury	0.0028	U	0.0028	0.0977	mg/kg	93		88-123		
Batch number: 111601026003A	Sample number(s): 6309733-6309746									
Antimony	0.0600	U	0.0600	0.200	mg/kg	104		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.0660	U	0.0660	0.400	mg/kg	94		83-110		
Lead	0.0160	J	0.0104	0.200	mg/kg	101		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	99		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		83-110		
Vanadium	0.0337	J	0.0220	0.100	mg/kg	93		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	98		81-112		
Batch number: 111601026003B	Sample number(s): 6309733-6309746									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111601026003C	Sample number(s): 6309733-6309746									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 111601026003D	Sample number(s): 6309733-6309746									
Barium	0.108	U	0.108	0.400	mg/kg	98		81-111		
Batch number: 111605708003	Sample number(s): 6309733-6309746									
Aluminum	5.03	U	5.03	20.0	mg/kg	79		61-110		
Boron	0.406	J	0.360	5.00	mg/kg	90		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	93		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		
Phosphorus	1.82	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	92		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.75	J	1.00	10.0	mg/kg	97		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	107		80-120		
Batch number: 111665708001	Sample number(s): 6309733-6309746									
Titanium	0.0710	U	0.0710	1.00	mg/kg	105		80-120		
Batch number: 11159196901C	Sample number(s): 6309748									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	102	99	90-110	3	20
Batch number: 11161243202A	Sample number(s): 6309733-6309734,6309736-6309746									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11166102201A	Sample number(s): 6309733-6309734,6309736-6309745									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11166102201B	Sample number(s): 6309746									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11166117101B	Sample number(s): 6309748									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	99	98	90-110	1	20
Batch number: 11169621201A	Sample number(s): 6309733-6309734,6309736-6309745									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11169621201B	Sample number(s): 6309746									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11171621202A	Sample number(s): 6309733-6309734,6309736-6309745									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11171621202B	Sample number(s): 6309746									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11160039401A	Sample number(s): 6309733,6309736-6309737									
18a pH by 9045C						100		95-105		
Batch number: 11160039401B	Sample number(s): 6309738-6309746									
18a pH by 9045C						100		95-105		
Batch number: 11174162402A	Sample number(s): 6309733-6309737									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11174162402B	Sample number(s): 6309738-6309746									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111641AA	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acetone	98	89	15-210	6	30				
Benzene	115	101	55-143	9	30				
Bromobenzene	108	88	43-139	16	30				
Bromochloromethane	112	104	60-137	3	30				
Bromodichloromethane	108	97	53-136	7	30				
Bromoform	100	89	38-124	8	30				
Bromomethane	91	81	42-168	7	30				
2-Butanone	103	92	37-163	7	30				
n-Butylbenzene	114	86	30-146	23	30				
sec-Butylbenzene	115	89	33-157	21	30				
tert-Butylbenzene	111	88	41-152	18	30				
Carbon Tetrachloride	121	106	45-153	9	30				
Chlorobenzene	111	94	49-135	12	30				
Chloroethane	83	74	39-152	8	30				
2-Chloroethyl Vinyl Ether	95	94	32-139	3	30				
Chloroform	116	102	61-142	9	30				
Chloromethane	105	96	51-163	4	30				
2-Chlorotoluene	109	86	42-146	19	30				
4-Chlorotoluene	114	89	39-145	20	30				
Chlorotrifluoroethene	88	89	70-130	1	30				
1,2-Dibromo-3-chloropropane	106	89	30-139	13	30				
Dibromochloromethane	105	91	51-128	10	30				
1,2-Dibromoethane	104	93	54-129	7	30				
Dibromomethane	105	93	57-130	7	30				
1,2-Dichlorobenzene	107	85	36-133	19	30				
1,3-Dichlorobenzene	106	84	34-134	19	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	107	84	35-136	19	30				
Dichlorodifluoromethane	100	91	26-151	6	30				
1,1-Dichloroethane	116	103	63-142	8	30				
1,2-Dichloroethane	115	102	68-131	8	30				
1,1-Dichloroethene	123	111	61-149	7	30				
cis-1,2-Dichloroethene	111	98	60-136	8	30				
trans-1,2-Dichloroethene	113	96	59-142	12	30				
1,2-Dichloropropane	108	96	62-135	8	30				
1,3-Dichloropropane	106	93	58-129	9	30				
2,2-Dichloropropane	121	107	53-147	8	30				
1,1-Dichloropropene	118	104	54-145	9	30				
cis-1,3-Dichloropropene	103	94	51-131	5	30				
trans-1,3-Dichloropropene	102	91	49-129	8	30				
Ethylbenzene	114	95	44-141	14	30				
Freon 113	127	111	56-156	9	30				
Freon 133a	109	109	61-131	1	30				
Hexachlorobutadiene	97	69	10-155	30	30				
2-Hexanone	104	91	32-160	9	30				
Isopropylbenzene	117	96	38-144	15	30				
p-Isopropyltoluene	113	88	29-152	21	30				
Methyl Tertiary Butyl Ether	106	92	55-129	10	30				
4-Methyl-2-pentanone	106	91	46-139	10	30				
Methylene Chloride	113	101	61-141	7	30				
n-Propylbenzene	117	92	39-157	20	30				
Styrene	110	93	35-134	13	30				
1,1,1,2-Tetrachloroethane	111	93	52-130	14	30				
1,1,2,2-Tetrachloroethane	100	84	40-152	14	30				
Tetrachloroethene	118	96	42-149	16	30				
Toluene	112	95	50-146	12	30				
1,2,3-Trichlorobenzene	90	70	10-140	21	30				
1,2,4-Trichlorobenzene	87	67	10-136	21	30				
1,1,1-Trichloroethane	114	101	64-142	8	30				
1,1,2-Trichloroethane	105	91	54-139	10	30				
Trichloroethene	112	97	53-144	10	30				
Trichlorofluoromethane	115	104	47-163	6	30				
1,2,3-Trichloropropane	101	85	45-154	14	30				
1,2,4-Trimethylbenzene	111	88	37-149	18	30				
1,3,5-Trimethylbenzene	115	91	38-150	20	30				
Vinyl Chloride	105	96	50-154	5	30				
m+p-Xylene	116	98	44-137	13	30				
o-Xylene	113	94	42-137	14	30				
Batch number: E111601AA	Sample number(s): 6309747 UNSPK: P308916								
1,4-Dioxane	101	118	73-138	16	30				
Batch number: E111611AA	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
1,4-Dioxane	108	99	70-130	2	30				
Batch number: 11160SLF026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acenaphthene	70*	72*	75-115	1	30				
Acenaphthylene	72*	73*	81-110	1	30				
Aniline	47	47	35-95	1	30				
Anthracene	71*	74*	75-115	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzidine	18*	22*	35-141	17	30				
Benzo(a)anthracene	71	75	65-122	4	30				
Benzo(a)pyrene	82	84	57-126	2	30				
Benzo(b)fluoranthene	79	82	59-125	2	30				
Benzo(g,h,i)perylene	89	90	59-127	0	30				
Benzo(k)fluoranthene	84	85	56-132	0	30				
Benzoic acid	54	40	10-173	30	30				
Benzyl alcohol	73	74	67-115	0	30				
4-Bromophenyl-phenylether	66*	70	67-129	5	30				
Butylbenzylphthalate	77	79	73-134	2	30				
Di-n-butylphthalate	69	71	67-123	2	30				
Carbazole	70	73	64-120	3	30				
4-Chloro-3-methylphenol	73*	74*	76-110	1	30				
4-Chloroaniline	48	54	23-95	11	30				
bis(2-Chloroethoxy)methane	65*	67*	75-104	2	30				
bis(2-Chloroethyl)ether	63	62	60-116	3	30				
bis(2-Chloroisopropyl)ether	61	58	55-142	7	30				
2-Chloronaphthalene	64	66	50-141	1	30				
2-Chlorophenol	74	71*	73-121	5	30				
4-Chlorophenyl-phenylether	67*	69*	80-109	2	30				
Chrysene	70	74	62-128	4	30				
Dibenz(a,h)anthracene	87	87	65-125	2	30				
Dibenzofuran	70*	72	71-112	2	30				
1,2-Dichlorobenzene	55*	52*	66-108	7	30				
1,3-Dichlorobenzene	52*	50*	63-109	4	30				
1,4-Dichlorobenzene	52*	50*	70-100	3	30				
3,3'-Dichlorobenzidine	49	46	16-119	7	30				
2,4-Dichlorophenol	72*	73*	78-117	1	30				
Diethylphthalate	69	70	66-118	1	30				
2,4-Dimethylphenol	70*	69*	78-110	3	30				
3,5-Dimethylphenol	101	105	70-130	3	30				
Dimethylphthalate	68	72	64-118	3	30				
4,6-Dinitro-2-methylphenol	0*	0*	24-116	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	69*	72*	73-113	3	30				
2,6-Dinitrotoluene	70	71	69-123	0	30				
1,2-Diphenylhydrazine	73	76	71-129	2	30				
bis(2-Ethylhexyl)phthalate	74	77	63-122	2	30				
Fluoranthene	69*	72*	73-112	3	30				
Fluorene	72*	74*	77-111	2	30				
Hexachlorobenzene	70*	73*	77-114	4	30				
Hexachlorobutadiene	56*	55*	62-120	3	30				
Hexachlorocyclopentadiene	26	28	10-153	5	30				
Hexachloroethane	49*	46*	57-109	8	30				
Indeno(1,2,3-cd)pyrene	89	88	61-126	2	30				
Isophorone	68*	69*	73-102	0	30				
1-Methylnaphthalene	67*	68*	73-112	0	30				
2-Methylnaphthalene	63*	63*	76-114	1	30				
2-Methylphenol	70*	69*	75-111	2	30				
4-Methylphenol	65*	64*	71-111	2	30				
Naphthalene	62*	62*	72-116	2	30				
2-Nitroaniline	76	78	67-125	1	30				
3-Nitroaniline	71	72	59-122	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitroaniline	58	62	52-112	5	30				
Nitrobenzene	68*	67*	72-106	2	30				
2-Nitrophenol	53*	55*	74-115	2	30				
4-Nitrophenol	57	54	54-113	7	30				
N-Nitroso-di-n-propylamine	66	67	60-116	0	30				
N-Nitrosodimethylamine	70	73	47-116	3	30				
N-Nitrosodiphenylamine	69*	70*	86-145	0	30				
Di-n-octylphthalate	88	90	56-126	0	30				
Pentachlorophenol	52	41	28-127	25	30				
Phenanthrene	70	71	65-125	1	30				
Phenol	68	69	58-126	0	30				
Pyrene	75	78	74-126	3	30				
1,2,4-Trichlorobenzene	61*	58*	72-115	5	30				
2,4,5-Trichlorophenol	71*	71*	78-109	1	30				
2,4,6-Trichlorophenol	72*	74*	77-115	1	30				
Batch number: 11161SLE026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
N-Nitrosodimethylamine	90	93	70-130	3	30				
Batch number: 11167SLI026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acenaphthene	75	68	63-105	9	30				
Acenaphthylene	70	63*	67-114	11	30				
Anthracene	76	70	60-122	9	30				
Benzo(a)anthracene	85	78	59-128	9	30				
Benzo(a)pyrene	86	79	45-138	9	30				
Benzo(b)fluoranthene	88	83	43-155	7	30				
Benzo(g,h,i)perylene	63	61	33-141	4	30				
Benzo(k)fluoranthene	90	83	42-144	9	30				
Butylbenzylphthalate	95	87	57-173	10	30				
Di-n-butylphthalate	91	85	65-148	7	30				
Chrysene	83	77	48-134	8	30				
Dibenz(a,h)anthracene	75	72	22-133	6	30				
Diethylphthalate	78	74	70-136	5	30				
Dimethylphthalate	78	73*	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	87	79	39-167	10	30				
Fluoranthene	79	73	26-166	8	30				
Fluorene	76	70	66-122	9	30				
Indeno(1,2,3-cd)pyrene	73	69	21-143	5	30				
1-Methylnaphthalene	79	72	72-123	10	30				
2-Methylnaphthalene	71	64	64-103	10	30				
Naphthalene	72	66	61-102	9	30				
N-Nitrosodimethylamine	81	76	48-113	7	30				
Di-n-octylphthalate	92	83	40-192	10	30				
Phenanthrene	74	70	12-165	7	30				
Pyrene	73	69	15-153	6	30				
Batch number: 11160A34A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
9a TPH by EPA 8015B Gas C5-C12	64	60	39-118	9	30				
Batch number: 111640007A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
4-Amino-2,6-Dinitrotoluene	108	117	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	111	119	38-166	5	50				

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Quality Control Summary

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Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	102	110	80-131	5	50				
2,6-Dinitrotoluene	108	115	80-127	5	50				
HMX	90	100	63-128	8	50				
Nitrobenzene	108	113	80-125	3	50				
Nitroglycerin	91	99	80-120	6	50				
2-Nitrotoluene	101	109	80-122	6	50				
3-Nitrotoluene	108	116	72-119	5	50				
4-Nitrotoluene	100	109	80-125	6	50				
PETN	116	128*	80-121	8	50				
RDX	82	90	75-129	7	50				
Tetryl	64	74	55-174	12	50				
1,3,5-Trinitrobenzene	83	91	82-126	7	50				
2,4,6-Trinitrotoluene	105	115	82-130	7	50				
Batch number: 111640006A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
25a Formaldehyde 8315A	101	110	80-120	8	50				
Batch number: 111660019A	Sample number(s): 6309737,6309740 UNSPK: 6309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111620006A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
PCB-1016	95	75	29-146	23	50				
PCB-1260	112	91	39-149	20	50				
Batch number: 111610013A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
EFH (C12-C14)	96	86	49-123	12	20				
EFH (C15-C20)	114	98	49-123	15	20				
EFH (C21-C30)	110	86	49-123	25*	20				
EFH (C30 - C40)	100	88	49-123	11	20				
EFH (C8-C11)	95	84	49-123	12	20				
Batch number: 111600002A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Diethylene glycol	45*	27*	59-109	49*	20				
Ethylene glycol	67	48*	63-107	34*	20				
Propylene glycol	74	53*	63-107	33*	20				
Batch number: 111600024A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Ethanol	81	77	48-130	5	20				
Isopropanol	79	75	12-149	5	20				
Methanol	79	76	43-138	5	20				
Batch number: 111610019A	Sample number(s): 6309748 UNSPK: P310961								
Ethanol	92	96	62-145	4	20				
Isopropanol	88	92	73-131	4	20				
Methanol	96	96	52-159	0	20				
Batch number: 111640015A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
m-Terphenyl	68*	66*	75-125	3	20				
o-Terphenyl	77	76	75-125	2	20				
p-Terphenyl	82	79	75-125	4	20				
Batch number: 111595711006	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Mercury	95	98	65-135	8	20	0.0043 J	0.0092 J	73* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111601026003A	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Antimony	61*	81	75-125	19	20	0.224	0.259	15 (1)	20
Arsenic	104	214*	75-125	21*	20	6.68	7.30	9	20
Beryllium	105	133*	75-125	11	20	0.867	0.964	11	20
Cadmium	116	140*	75-125	12	20	0.377	0.311	19 (1)	20
Chromium	80	160*	75-125	18	20	30.2	33.5	10	20
Cobalt	96	128*	75-125	20	20	14.7	11.5	24*	20
Copper	81	136*	75-125	18	20	17.1	17.7	3	20
Lead	100	215 (2)	75-125	20	20	11.8	12.0	1	20
Nickel	54*	160*	75-125	24*	20	30.7	27.8	10	20
Silver	124	141*	75-125	10	20	0.0480 J	0.0424 J	12 (1)	20
Thallium	115	143*	75-125	11	20	0.372	0.387	4 (1)	20
Vanadium	61 (2)	223 (2)	75-125	24*	20	49.7	57.9	15	20
Zinc	51 (2)	190 (2)	75-125	15	20	76.0	81.2	7	20
Batch number: 111601026003B	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Selenium	108	115	75-125	4	20	0.105 J	0.0873 J	18 (1)	20
Batch number: 111601026003C	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Molybdenum	119	135*	75-125	9	20	0.317	0.320	1 (1)	20
Batch number: 111601026003D	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Barium	-65 (2)	-249 (2)	75-125	11	20	177	176	1	20
Batch number: 111605708003	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Aluminum	5628 (2)	5203 (2)	75-125	3	20	22,200	23,800	7	20
Boron	98	97	84-115	2	20	11.2	12.8	14 (1)	20
Calcium	-586 (2)	-1127 (2)	75-125	24*	20	12,100	7,230	51*	20
Iron	2370 (2)	2376 (2)	75-125	0	20	30,400	30,900	1	20
Lithium	107	105	82-114	2	20	21.8	23.4	7	20
Magnesium	616 (2)	442 (2)	75-125	5	20	6,580	6,500	1	20
Manganese	231 (2)	539 (2)	75-125	29*	20	321	466	37*	20
Phosphorus	123	123	75-125	0	20	313	329	5	20
Potassium	167*	156*	75-125	3	20	2,750	2,800	2	20
Sodium	98	97	75-125	1	20	384	414	7 (1)	20
Strontium	97	94	75-115	3	20	39.8	37.7	5	20
Tin	86	86	80-110	2	20	2.29 J	2.28 J	0 (1)	20
Zirconium	101	100	75-125	2	20	3.14 J	5.15	48* (1)	20
Batch number: 111665708001	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Titanium	173 (2)	355 (2)	75-125	12	20	1,240	1,170	6	20
Batch number: 11161243202A	Sample number(s): 6309733-6309734,6309736-6309746 UNSPK: 6309733 BKG: 6309733								
3a Cr VI by EPA 7199	93		75-125			0.39 J	0.44 J	13 (1)	20
Batch number: 11166102201A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733								
17a Cyanide by 9012B	97		75-125			0.18 U	0.18 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11166102201B	Sample number(s): 6309746 UNSPK: P310775 BKG: P310775										
17a Cyanide by 9012B	97		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11169621201A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11169621201B	Sample number(s): 6309746 UNSPK: 6309746 BKG: 6309746										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11171621202A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733										
11a Anions by 300.0 - Fluoride	52*		80-120			13.7		16.4		18	20
11a Anions by 300.0 - Nitrate	95		80-120			1.3	J	1.5		11 (1)	20
Batch number: 11171621202B	Sample number(s): 6309746 UNSPK: 6309746 BKG: 6309746										
11a Anions by 300.0 - Fluoride	69*		80-120			2.9		3.6		22* (1)	20
11a Anions by 300.0 - Nitrate	89		80-120			1.2	J	1.3	J	8 (1)	20
Batch number: 11160039401A	Sample number(s): 6309733,6309736-6309737 BKG: 6309733										
18a pH by 9045C						8.81		8.54		3	3
Batch number: 11160039401B	Sample number(s): 6309738-6309746 BKG: 6309746										
18a pH by 9045C						8.09		8.15		1	3
Batch number: 11174162402A	Sample number(s): 6309733-6309737 BKG: 6309733										
28a Moisture Content by 160.3						12.2		12.2		1	20
Moisture Content by 160.3						12.2		12.2		1	20
Moisture Content by 160.3						12.2		12.2		1	20
Batch number: 11174162402B	Sample number(s): 6309738-6309746 BKG: 6309741										
Moisture Content by 160.3						13.4		13.0		3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6309733	101	99	101	92
6309734	102	101	103	100
6309735	103	103	101	102
6309737	104	104	98	96
6309738	104	100	100	92
6309739	104	100	99	95
6309740	106	107	98	96
6309741	105	104	99	94
6309742	105	103	100	94
6309743	106	105	99	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309744	104	100	103	88
6309745	105	100	101	93
6309746	106	103	100	95
Blank	104	100	99	94
LCS	104	101	102	103
MS	102	101	103	100
MSD	103	103	101	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111601AA

	Toluene-d8
6309747	101
Blank	100
LCS	100
MS	102
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111611AA

	Toluene-d8
6309733	95
6309734	93
6309735	95
6309737	93
6309738	94
6309739	94
6309740	92
6309741	93
6309742	95
6309743	102
6309744	98
6309745	91
6309746	101
Blank	95
LCS	94
LCSD	95
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6309747	103	102	100	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

Analysis Name: 15b NDMA by 1625C
Batch number: 11159WAB026

	N-Nitrosodimethylamine-d6
6309748	162*
Blank	129
LCS	129
LCSD	136
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11160SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6309733	83	86	78	81	77	80
6309734	93	94	87	84	84	86
6309735	91	91	85	84	81	88
6309737	86	89	83	85	85	87
6309738	87	87	83	85	83	89
6309739	85	85	84	78	81	88
6309740	82	80	75	71	70	86
6309741	78	80	74	74	72	85
6309742	79	77	72	69	66	86
6309743	83	84	87	79	83	92
6309744	84	85	87	81	82	86
6309745	83	84	81	78	79	90
6309746	83	83	75	75	75	87
Blank	86	90	92	88	85	75
LCS	90	94	100	92	87	85
MS	93	94	87	84	84	86
MSD	91	91	85	84	81	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11161SLE026

	N-Nitrosodimethylamine-d6
6309733	106
6309734	107
6309735	104
6309737	95
6309738	98
6309739	147
6309740	94
6309741	97
6309742	91
6309743	113
6309744	120
6309745	113
6309746	103
Blank	122
LCS	113

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

MS	107		
MSD	104		
Limits:	50-150		

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6309733	84	72	87
6309734	90	78	87
6309735	88	76	85
6309737	96	84	93
6309738	95	81	93
6309739	95	80	91
6309740	90	75	86
6309741	97	81	93
6309742	87	75	94
6309743	83	60	88
6309744	100	85	95
6309745	93	75	88
6309746	91	76	88
Blank	92	81	95
LCS	99	85	98
MS	90	78	87
MSD	88	76	85
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11160A34A

	Trifluorotoluene-F
6309733	74
6309734	80
6309735	75
6309737	73
6309738	73
6309739	68
6309740	71
6309741	68
6309742	72
6309743	71
6309744	72
6309745	66
6309746	73
Blank	85
LCS	87
MS	80
MSD	75
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11165A20A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309747	63
6309748	65
Blank	67
LCS	93
LCSD	90
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111590025A

	Butyraldehyde
6309748	106
Blank	90
LCS	83
LCSD	76
Limits:	45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111620006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6309733	79	92
6309734	87	106
6309735	78	94
6309737	89	100
6309738	83	87
6309739	90	95
6309740	89	107
6309741	94	109
6309742	85	98
6309743	86	99
6309744	92	105
6309745	87	104
6309746	77	91
Blank	99	104
LCS	112	112
LCSD	112	119
MS	87	106
MSD	78	94
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111640006A

	Butyraldehyde
6309733	105
6309734	127*
6309735	122
6309737	118
6309738	149*
6309739	116
6309740	120
6309741	110
6309742	110

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309743	147*
6309744	135*
6309745	131*
6309746	116
Blank	156*
LCS	126
MS	127*
MSD	122
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111640007A

2-Nitro-m-xylene

6309733	116
6309734	108
6309735	120
6309737	107
6309738	113
6309739	113
6309740	122
6309741	113
6309742	122
6309743	121
6309744	122
6309745	120
6309746	122
Blank	122
LCS	109
LCSD	115
MS	108
MSD	120
Limits:	80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111640024A

2-Nitro-m-xylene

6309748	113
Blank	107
LCS	102
LCSD	106
Limits:	50-134

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111590032A

n-Triacontane-d62

6309748	89
Blank	87
LCS	88
LCSD	84
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111590034A

	Chlorobenzene	Orthoterphenyl
6309748	99	103
Blank	86	98
LCS	102	106
LCSD	92	94
Limits:	28-152	52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 111600001A

	Tetramethylene glycol
6309748	105
Blank	100
LCS	123*
LCSD	106
Limits:	77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111600002A

	Tetramethylene glycol
6309733	83
6309734	89
6309735	85
6309737	88
6309738	89
6309739	83
6309740	88
6309741	82
6309742	85
6309743	88
6309744	86
6309745	88
6309746	83
Blank	102
LCS	116
MS	89
MSD	85
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111600024A

	Acetone
6309733	80
6309734	76
6309735	75
6309737	78
6309738	82
6309739	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309740	81
6309741	82
6309742	76
6309743	82
6309744	82
6309745	76
6309746	71
Blank	88
LCS	92
MS	76
MSD	75
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111610013A

	Chlorobenzene	Orthoterphenyl
6309733	85	95
6309734	94	105
6309735	84	96
6309737	81	97
6309738	72	93
6309739	81	98
6309740	74	92
6309741	66	85
6309742	70	88
6309743	71	90
6309744	73	95
6309745	66	90
6309746	60	83
Blank	98	107
LCS	94	106
MS	94	105
MSD	84	96
Limits:	37-125	47-145

Analysis Name: 19b Alcohols by 8015B
Batch number: 111610019A

	Acetone
6309748	99
Blank	98
LCS	95
MS	97
MSD	98
Limits:	54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111640015A

	n-Triacontane-d62
6309733	95
6309734	110
6309735	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309737	86
6309738	101
6309739	89
6309740	89
6309741	93
6309742	86
6309743	87
6309744	86
6309745	90
6309746	95
Blank	96
LCS	94
MS	110
MSD	97
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1250458 Sample# 6309733-48

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AM/LW 6-7-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5DN-SB-4.5MS	06.07.11	0855	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-024-SA5DN-SB-4.0-5.0MS	06.07.11	0910	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-024-SA5DN-SB-19.5	06.07.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-024-SA5DN-SB-19.0-20.0	06.07.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-4.5	06.07.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-4.0-5.0	06.07.11	1135	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-17.5	06.07.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-17.0-18.0	06.07.11	1145	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-4.5	06.07.11	1430	SOIL	NONE	5~~4~~-Encores										X	X	X										
SL-036-SA5DN-SB-4.0-5.0	06.07.11	1435	SOIL	NONE	4~~5~~-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-9.5	06.07.11	1440	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-9.0-10.0	06.07.11	1445	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP13-SA5DN-QC-060711	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
DUP13-SA5DN-QC-060711	06.07.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/07/2011 / 1700		Lancaster Laboratories, inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/8/11 0930	8754 3339 9165; 9176, 9187,9198	

acct#13013 Cap#1250458 Sample#6309733-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SL-071-SA8N-SB-2.5	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA8N-SB-2.0-3.0	06.07.11	0905	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-122-SA8N-SB-2.5	06.07.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-122-SA8N-SB-2.0-3.0	06.07.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-140-SA8N-SB-3.5	06.07.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA8N-SB-3.0-4.0	06.07.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-133-SA8N-SB-7.5	06.06.11	1710	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA8N-SB-7.0-8.0	06.06.11	1715	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060711	06.07.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0830	Airbill No.(s) 8754 3339 9165; 9176, 9187,9198	

acct#13013 Cp#1250458 Sample#6309733-48

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					VOCs	SECONDARY FOR ALL LOCATIONS									Other instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	1-250mL Glass				X							
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NaOH	1-500 poly							X				
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	HCL	5-40mL Vials	X									X	
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	4-40mL Vials			X						X		
Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0912		Airbill No.(s) 8754 3339 9165; 9176, 9187													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/08/2011
Group Number: 1250463
SDG: DX099
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5DN-SB-4.0-5.0 Soil	6309771
SL-024-SA5DN-SB-4.0-5.0MS Soil	6309772
SL-024-SA5DN-SB-4.0-5.0MSD Soil	6309773
SL-024-SA5DN-SB-19.0-20.0 Soil	6309774
SL-026-SA5DN-SB-4.0-5.0 Soil	6309775
SL-026-SA5DN-SB-17.0-18.0 Soil	6309776
SL-036-SA5DN-SB-4.0-5.0 Soil	6309777
SL-036-SA5DN-SB-9.0-10.0 Soil	6309778
DUP13-SA5DN-QC-060711 Soil	6309779
SL-071-SA8N-SB-2.0-3.0 Soil	6309780
SL-122-SA8N-SB-2.0-3.0 Soil	6309781
SL-140-SA8N-SB-3.0-4.0 Soil	6309782
SL-133-SA8N-SB-7.0-8.0 Soil	6309783

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0887	J	0.0219	1.13	1
11031	12378-PeCDD	40321-76-4	0.250	J	0.0187	5.63	1
11031	123478-HxCDD	39227-28-6	0.0830	JQ	0.0156	5.63	1
11031	123678-HxCDD	57653-85-7	0.143	JBQ	0.0164	5.63	1
11031	123789-HxCDD	19408-74-3	0.178	JBQ	0.0155	5.63	1
11031	1234678-HpCDD	35822-46-9	1.69	JB	0.0270	5.63	1
11031	OCDD	3268-87-9	13.5	B	0.0181	11.3	1
11031	2378-TCDF	51207-31-9	0.0933	JQ	0.0137	1.13	1
11031	12378-PeCDF	57117-41-6	0.337	JB	0.00843	5.63	1
11031	23478-PeCDF	57117-31-4	0.238	JB	0.00797	5.63	1
11031	123478-HxCDF	70648-26-9	0.144	JBQ	0.0121	5.63	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0113	5.63	1
11031	123789-HxCDF	72918-21-9	0.151	JB	0.0117	5.63	1
11031	234678-HxCDF	60851-34-5	0.0767	JBQ	0.0116	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0901	JB	0.00740	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0253	JB	0.0100	5.63	1
11031	OCDF	39001-02-0	0.133	JBQ	0.0158	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 12:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.5		0.0273	1.11	1
11031	12378-PeCDD	40321-76-4	99.1		0.0313	5.56	1
11031	123478-HxCDD	39227-28-6	101		0.0363	5.56	1
11031	123678-HxCDD	57653-85-7	97.7	B	0.0378	5.56	1
11031	123789-HxCDD	19408-74-3	98.7	B	0.0358	5.56	1
11031	1234678-HpCDD	35822-46-9	99.6	B	0.0654	5.56	1
11031	OCDD	3268-87-9	212	B	0.0509	11.1	1
11031	2378-TCDF	51207-31-9	19.7		0.0243	1.11	1
11031	12378-PeCDF	57117-41-6	97.9	B	0.0223	5.56	1
11031	23478-PeCDF	57117-31-4	97.5	B	0.0206	5.56	1
11031	123478-HxCDF	70648-26-9	101	B	0.0621	5.56	1
11031	123678-HxCDF	57117-44-9	99.5	B	0.0565	5.56	1
11031	123789-HxCDF	72918-21-9	100	B	0.0569	5.56	1
11031	234678-HxCDF	60851-34-5	102	B	0.0510	5.56	1
11031	1234678-HpCDF	67562-39-4	98.4	B	0.0445	5.56	1
11031	1234789-HpCDF	55673-89-7	100	B	0.0585	5.56	1
11031	OCDF	39001-02-0	203	B	0.0501	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 17:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.8		0.0261	1.12	1
11031	12378-PeCDD	40321-76-4	100		0.0415	5.58	1
11031	123478-HxCDD	39227-28-6	101		0.0309	5.58	1
11031	123678-HxCDD	57653-85-7	101	B	0.0327	5.58	1
11031	123789-HxCDD	19408-74-3	99.0	B	0.0308	5.58	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0533	5.58	1
11031	OCDD	3268-87-9	205	B	0.0509	11.2	1
11031	2378-TCDF	51207-31-9	19.5		0.0220	1.12	1
11031	12378-PeCDF	57117-41-6	99.5	B	0.0219	5.58	1
11031	23478-PeCDF	57117-31-4	99.6	B	0.0211	5.58	1
11031	123478-HxCDF	70648-26-9	101	B	0.0621	5.58	1
11031	123678-HxCDF	57117-44-9	100	B	0.0558	5.58	1
11031	123789-HxCDF	72918-21-9	103	B	0.0607	5.58	1
11031	234678-HxCDF	60851-34-5	103	B	0.0567	5.58	1
11031	1234678-HpCDF	67562-39-4	99.6	B	0.0372	5.58	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0532	5.58	1
11031	OCDF	39001-02-0	204	B	0.0498	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 18:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220	J	0.0180	1.09	1
11031	12378-PeCDD	40321-76-4	0.142	J	0.0191	5.45	1
11031	123478-HxCDD	39227-28-6	0.142	JQ	0.0235	5.45	1
11031	123678-HxCDD	57653-85-7	0.162	JB	0.0242	5.45	1
11031	123789-HxCDD	19408-74-3	0.172	JB	0.0229	5.45	1
11031	1234678-HpCDD	35822-46-9	0.691	JB	0.0389	5.45	1
11031	OCDD	3268-87-9	1.72	JB	0.0316	10.9	1
11031	2378-TCDF	51207-31-9	0.0368	JQ	0.0129	1.09	1
11031	12378-PeCDF	57117-41-6	0.164	JBQ	0.00812	5.45	1
11031	23478-PeCDF	57117-31-4	0.157	JB	0.00768	5.45	1
11031	123478-HxCDF	70648-26-9	0.162	JB	0.0174	5.45	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0162	5.45	1
11031	123789-HxCDF	72918-21-9	0.158	JB	0.0165	5.45	1
11031	234678-HxCDF	60851-34-5	0.133	JB	0.0156	5.45	1
11031	1234678-HpCDF	67562-39-4	0.180	JBQ	0.0157	5.45	1
11031	1234789-HpCDF	55673-89-7	0.153	JBQ	0.0208	5.45	1
11031	OCDF	39001-02-0	0.421	JB	0.0375	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-024-SA5DN-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 19:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0247	J	0.0192	1.15	1
11031	12378-PeCDD	40321-76-4	0.0763	J	0.0267	5.74	1
11031	123478-HxCDD	39227-28-6	0.0531	JQ	0.0382	5.74	1
11031	123678-HxCDD	57653-85-7	0.438	JB	0.0402	5.74	1
11031	123789-HxCDD	19408-74-3	0.538	JB	0.0371	5.74	1
11031	1234678-HpCDD	35822-46-9	5.44	JB	0.0546	5.74	1
11031	OCDD	3268-87-9	57.7	B	0.0490	11.5	1
11031	2378-TCDF	51207-31-9	0.0286	U	0.0286	1.15	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0153	5.74	1
11031	23478-PeCDF	57117-31-4	0.194	JB	0.0150	5.74	1
11031	123478-HxCDF	70648-26-9	0.0257	U	0.0257	5.74	1
11031	123678-HxCDF	57117-44-9	0.0812	JBQ	0.0248	5.74	1
11031	123789-HxCDF	72918-21-9	0.693	JB	0.0271	5.74	1
11031	234678-HxCDF	60851-34-5	0.0604	JB	0.0256	5.74	1
11031	1234678-HpCDF	67562-39-4	0.462	JB	0.0263	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0713	JB	0.0334	5.74	1
11031	OCDF	39001-02-0	1.49	JB	0.0566	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 20:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0148 U	0.0148	1.08	1
11031	12378-PeCDD	40321-76-4	0.0168 U	0.0168	5.40	1
11031	123478-HxCDD	39227-28-6	0.0157 U	0.0157	5.40	1
11031	123678-HxCDD	57653-85-7	0.0473 JBQ	0.0166	5.40	1
11031	123789-HxCDD	19408-74-3	0.0568 JBQ	0.0153	5.40	1
11031	1234678-HpCDD	35822-46-9	1.72 JB	0.0369	5.40	1
11031	OCDD	3268-87-9	34.5 B	0.0375	10.8	1
11031	2378-TCDF	51207-31-9	0.0131 U	0.0131	1.08	1
11031	12378-PeCDF	57117-41-6	0.0180 JBQ	0.00752	5.40	1
11031	23478-PeCDF	57117-31-4	0.0432 JB	0.00709	5.40	1
11031	123478-HxCDF	70648-26-9	0.0139 JBQ	0.00796	5.40	1
11031	123678-HxCDF	57117-44-9	0.00742 U	0.00742	5.40	1
11031	123789-HxCDF	72918-21-9	0.0265 JBQ	0.00796	5.40	1
11031	234678-HxCDF	60851-34-5	0.0277 JBQ	0.00742	5.40	1
11031	1234678-HpCDF	67562-39-4	0.0796 JB	0.0109	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0388 JB	0.0136	5.40	1
11031	OCDF	39001-02-0	0.327 JB	0.0301	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DN-SB-17.0-18.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 20:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0197 U	0.0197	1.16	1
11031	12378-PeCDD	40321-76-4	0.0336 JQ	0.0177	5.79	1
11031	123478-HxCDD	39227-28-6	0.0218 JQ	0.0193	5.79	1
11031	123678-HxCDD	57653-85-7	0.114 JBQ	0.0199	5.79	1
11031	123789-HxCDD	19408-74-3	0.138 JB	0.0181	5.79	1
11031	1234678-HpCDD	35822-46-9	2.69 JB	0.0449	5.79	1
11031	OCDD	3268-87-9	25.8 B	0.0360	11.6	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.16	1
11031	12378-PeCDF	57117-41-6	0.0243 JBQ	0.00989	5.79	1
11031	23478-PeCDF	57117-31-4	0.0394 JB	0.00919	5.79	1
11031	123478-HxCDF	70648-26-9	0.0231 JBQ	0.0120	5.79	1
11031	123678-HxCDF	57117-44-9	0.0167 JB	0.0112	5.79	1
11031	123789-HxCDF	72918-21-9	0.109 JB	0.0126	5.79	1
11031	234678-HxCDF	60851-34-5	0.0124 JBQ	0.0114	5.79	1
11031	1234678-HpCDF	67562-39-4	0.103 JBQ	0.0118	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0307 JBQ	0.0147	5.79	1
11031	OCDF	39001-02-0	0.280 JB	0.0392	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 21:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0283	J	0.0157	1.14	1
11031	12378-PeCDD	40321-76-4	0.0243	JQ	0.0181	5.71	1
11031	123478-HxCDD	39227-28-6	0.0200	J	0.0167	5.71	1
11031	123678-HxCDD	57653-85-7	0.0788	JBQ	0.0179	5.71	1
11031	123789-HxCDD	19408-74-3	0.0600	JB	0.0172	5.71	1
11031	1234678-HpCDD	35822-46-9	3.30	JB	0.0420	5.71	1
11031	OCDD	3268-87-9	40.6	B	0.0308	11.4	1
11031	2378-TCDF	51207-31-9	0.0165	U	0.0165	1.14	1
11031	12378-PeCDF	57117-41-6	0.0249	JBQ	0.00797	5.71	1
11031	23478-PeCDF	57117-31-4	0.0387	JBQ	0.00739	5.71	1
11031	123478-HxCDF	70648-26-9	0.0269	JBQ	0.0103	5.71	1
11031	123678-HxCDF	57117-44-9	0.0102	JB	0.00958	5.71	1
11031	123789-HxCDF	72918-21-9	0.0221	JBQ	0.00970	5.71	1
11031	234678-HxCDF	60851-34-5	0.0178	JBQ	0.00912	5.71	1
11031	1234678-HpCDF	67562-39-4	0.130	JBQ	0.0121	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0171	U	0.0171	5.71	1
11031	OCDF	39001-02-0	0.328	JB	0.0352	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 22:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0271	JQ	0.0158	1.11	1
11031	12378-PeCDD	40321-76-4	0.0690	JQ	0.0174	5.53	1
11031	123478-HxCDD	39227-28-6	0.0484	JQ	0.0197	5.53	1
11031	123678-HxCDD	57653-85-7	0.149	JB	0.0211	5.53	1
11031	123789-HxCDD	19408-74-3	0.229	JB	0.0196	5.53	1
11031	1234678-HpCDD	35822-46-9	2.24	JB	0.0372	5.53	1
11031	OCDD	3268-87-9	20.1	B	0.0326	11.1	1
11031	2378-TCDF	51207-31-9	0.0257	JQ	0.0133	1.11	1
11031	12378-PeCDF	57117-41-6	0.120	JB	0.00904	5.53	1
11031	23478-PeCDF	57117-31-4	0.0851	JBQ	0.00835	5.53	1
11031	123478-HxCDF	70648-26-9	0.0678	JB	0.0133	5.53	1
11031	123678-HxCDF	57117-44-9	0.0735	JBQ	0.0121	5.53	1
11031	123789-HxCDF	72918-21-9	0.265	JB	0.0130	5.53	1
11031	234678-HxCDF	60851-34-5	0.0427	JB	0.0121	5.53	1
11031	1234678-HpCDF	67562-39-4	0.107	JB	0.0109	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0576	JB	0.0144	5.53	1
11031	OCDF	39001-02-0	0.216	JB	0.0265	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 23:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0498	J	0.0157	1.05	1
11031	12378-PeCDD	40321-76-4	0.286	J	0.0256	5.27	1
11031	123478-HxCDD	39227-28-6	0.0738	JQ	0.0214	5.27	1
11031	123678-HxCDD	57653-85-7	0.966	JB	0.0225	5.27	1
11031	123789-HxCDD	19408-74-3	1.68	JB	0.0208	5.27	1
11031	1234678-HpCDD	35822-46-9	0.711	JB	0.0292	5.27	1
11031	OCDD	3268-87-9	2.40	JB	0.0281	10.5	1
11031	2378-TCDF	51207-31-9	0.0758	JQ	0.0229	1.05	1
11031	12378-PeCDF	57117-41-6	0.311	JB	0.0119	5.27	1
11031	23478-PeCDF	57117-31-4	0.218	JBQ	0.0111	5.27	1
11031	123478-HxCDF	70648-26-9	0.127	JB	0.0178	5.27	1
11031	123678-HxCDF	57117-44-9	0.186	JB	0.0164	5.27	1
11031	123789-HxCDF	72918-21-9	0.391	JB	0.0172	5.27	1
11031	234678-HxCDF	60851-34-5	0.0848	JB	0.0173	5.27	1
11031	1234678-HpCDF	67562-39-4	0.134	JB	0.0100	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0427	JBQ	0.0135	5.27	1
11031	OCDF	39001-02-0	0.192	JB	0.0248	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 00:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224	U	0.0224	1.08	1
11031	12378-PeCDD	40321-76-4	0.155	JQ	0.0274	5.38	1
11031	123478-HxCDD	39227-28-6	0.0779	JQ	0.0237	5.38	1
11031	123678-HxCDD	57653-85-7	0.128	JB	0.0235	5.38	1
11031	123789-HxCDD	19408-74-3	0.176	JBQ	0.0223	5.38	1
11031	1234678-HpCDD	35822-46-9	1.02	JB	0.0416	5.38	1
11031	OCDD	3268-87-9	7.69	JB	0.0291	10.8	1
11031	2378-TCDF	51207-31-9	0.0932	JQ	0.0304	1.08	1
11031	12378-PeCDF	57117-41-6	0.248	JBQ	0.0168	5.38	1
11031	23478-PeCDF	57117-31-4	0.245	JB	0.0156	5.38	1
11031	123478-HxCDF	70648-26-9	0.165	JBQ	0.0168	5.38	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0156	5.38	1
11031	123789-HxCDF	72918-21-9	0.0967	JBQ	0.0175	5.38	1
11031	234678-HxCDF	60851-34-5	0.0862	JBQ	0.0157	5.38	1
11031	1234678-HpCDF	67562-39-4	0.229	JB	0.0137	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0335	JBQ	0.0197	5.38	1
11031	OCDF	39001-02-0	0.341	JB	0.0314	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0696	J	0.0167	1.13	1
11031	12378-PeCDD	40321-76-4	0.167	J	0.0283	5.66	1
11031	123478-HxCDD	39227-28-6	0.206	J	0.0657	5.66	1
11031	123678-HxCDD	57653-85-7	0.318	JB	0.0691	5.66	1
11031	123789-HxCDD	19408-74-3	0.372	JB	0.0656	5.66	1
11031	1234678-HpCDD	35822-46-9	5.03	JB	0.0617	5.66	1
11031	OCDD	3268-87-9	22.1	B	0.0595	11.3	1
11031	2378-TCDF	51207-31-9	0.0629	JQ	0.0198	1.13	1
11031	12378-PeCDF	57117-41-6	0.184	JB	0.0121	5.66	1
11031	23478-PeCDF	57117-31-4	0.129	JB	0.0112	5.66	1
11031	123478-HxCDF	70648-26-9	0.150	JB	0.0238	5.66	1
11031	123678-HxCDF	57117-44-9	0.0935	JB	0.0216	5.66	1
11031	123789-HxCDF	72918-21-9	0.217	JBQ	0.0255	5.66	1
11031	234678-HxCDF	60851-34-5	0.0687	JB	0.0218	5.66	1
11031	1234678-HpCDF	67562-39-4	0.287	JBQ	0.0263	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0804	JBQ	0.0396	5.66	1
11031	OCDF	39001-02-0	0.600	JB	0.0491	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 05:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0159	U	0.0159	1.14	1
11031	12378-PeCDD	40321-76-4	0.0196	JQ	0.0176	5.70	1
11031	123478-HxCDD	39227-28-6	0.0480	JQ	0.0304	5.70	1
11031	123678-HxCDD	57653-85-7	0.0711	JBQ	0.0310	5.70	1
11031	123789-HxCDD	19408-74-3	0.123	JBQ	0.0298	5.70	1
11031	1234678-HpCDD	35822-46-9	1.54	JB	0.0558	5.70	1
11031	OCDD	3268-87-9	14.5	B	0.0353	11.4	1
11031	2378-TCDF	51207-31-9	0.244	J	0.0747	1.14	1
11031	12378-PeCDF	57117-41-6	0.228	JB	0.0178	5.70	1
11031	23478-PeCDF	57117-31-4	0.0910	JBQ	0.0163	5.70	1
11031	123478-HxCDF	70648-26-9	0.102	JBQ	0.0201	5.70	1
11031	123678-HxCDF	57117-44-9	0.0497	JB	0.0183	5.70	1
11031	123789-HxCDF	72918-21-9	0.0592	JB	0.0213	5.70	1
11031	234678-HxCDF	60851-34-5	0.0439	JB	0.0191	5.70	1
11031	1234678-HpCDF	67562-39-4	0.375	JB	0.0224	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0678	JB	0.0337	5.70	1
11031	OCDF	39001-02-0	0.886	JB	0.0489	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 06:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162402A	Sample number(s): 6309771-6309774								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162402B	Sample number(s): 6309775-6309783								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11169001	Sample number(s): 6309771-6309783								
2378-TCDD	0.0186 U	0.0186	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0176 U	0.0176	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0267 U	0.0267	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0621 J	0.0282	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0839 J	0.0266	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.479 J	0.0498	5.00	ng/kg	90		70-140		
OCDD	1.04 J	0.0434	10.0	ng/kg	92		78-144		
2378-TCDF	0.0135 U	0.0135	1.00	ng/kg	90		75-158		
12378-PeCDF	0.0277 J	0.00790	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0481 J	0.00740	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0392 J	0.0142	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0252 J	0.0128	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0457 J	0.0144	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0179 J	0.0126	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0762 J	0.0192	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0506 J	0.0260	5.00	ng/kg	92		78-138		
OCDF	0.246 J	0.0420	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162402A	Sample number(s): 6309771-6309774					BKG: P309733			
Moisture Content by 160.3						12.2	12.2	1	20
Batch number: 11174162402B	Sample number(s): 6309775-6309783					BKG: P309741			
Moisture Content by 160.3						13.4	13.0	3	20
Batch number: 11169001	Sample number(s): 6309771-6309783					UNSPK: 6309771			
2378-TCDD	83	84	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	90	70-142	1	25				
123478-HxCDD	91	90	70-164	0	25				
123678-HxCDD	88	90	76-134	3	25				
123789-HxCDD	89	89	64-162	0	25				
1234678-HpCDD	88	89	70-140	1	25				
OCDD	89	86	78-144	4	25				
2378-TCDF	88	87	75-158	1	25				
12378-PeCDF	88	89	80-134	2	25				
23478-PeCDF	87	89	68-160	2	25				
123478-HxCDF	91	90	72-134	0	25				
123678-HxCDF	89	90	84-130	1	25				
123789-HxCDF	90	93	78-130	3	25				
234678-HxCDF	91	92	70-156	1	25				
1234678-HpCDF	88	89	82-122	1	25				
1234789-HpCDF	90	90	78-138	0	25				
OCDF	91	91	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11169001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6309771	63	69	71	76	74	82
6309772	60	65	64	67	71	74
6309773	65	69	71	77	75	80
6309774	66	68	73	75	75	83
6309775	86	81	84	87	87	92
6309776	73	73	76	79	78	88
6309777	67	68	71	75	73	78
6309778	65	66	69	72	71	77
6309779	66	67	70	74	74	81
6309780	70	69	73	76	74	84
6309781	67	68	70	74	72	79
6309782	70	69	71	76	75	76
6309783	67	68	72	76	73	79
Blank	66	70	74	79	78	78
MS	60	65	64	67	71	74
MSD	65	69	71	77	75	80
OPR	64	68	70	77	76	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6309771	82	72	66	84	71	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Surrogate Quality Control

6309772	78	69	65	81	67	73
6309773	87	73	68	85	73	79
6309774	81	75	70	84	71	77
6309775	87	84	78	95	85	89
6309776	83	78	74	86	77	82
6309777	77	72	67	84	71	76
6309778	82	68	62	84	69	73
6309779	79	72	67	85	70	77
6309780	82	72	67	85	72	77
6309781	81	68	64	82	71	75
6309782	84	68	62	83	72	78
6309783	85	68	62	82	71	75
Blank	88	76	71	91	72	81
MS	78	69	65	81	67	73
MSD	87	73	68	85	73	79
OPR	91	71	66	84	72	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6309771	74	76	77	73	59	69
6309772	72	75	76	74	55	65
6309773	77	81	84	78	61	71
6309774	76	77	83	76	61	68
6309775	86	89	88	83	80	83
6309776	78	82	84	80	69	75
6309777	74	77	78	74	62	68
6309778	73	74	76	71	61	68
6309779	74	77	78	74	62	69
6309780	75	77	79	74	67	71
6309781	73	76	77	74	63	68
6309782	75	77	75	73	66	71
6309783	74	76	77	71	62	70
Blank	79	82	83	81	62	70
MS	72	75	76	74	55	65
MSD	77	81	84	78	61	71
OPR	78	81	83	80	59	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250463 Sample# 6309771-83

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Ann Lw 6-7-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-024-SA5DN-SB-4.5MS	06.07.11	0855	SOIL	NONE	15-Encores										X	X	X										
SL-024-SA5DN-SB-4.0-5.0MS	06.07.11	0910	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-024-SA5DN-SB-19.5	06.07.11	0925	SOIL	NONE	5-Encores										X	X	X										MS/MSD
SL-024-SA5DN-SB-19.0-20.0	06.07.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-4.5	06.07.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-4.0-5.0	06.07.11	1135	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-17.5	06.07.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-17.0-18.0	06.07.11	1145	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-4.5	06.07.11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-4.0-5.0	06.07.11	1435	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-9.5	06.07.11	1440	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-9.0-10.0	06.07.11	1445	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP13-SA5DN-QC-060711	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
DUP13-SA5DN-QC-060711	06.07.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	06/07/2011 / 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	6/8/11 0930	8754 3339 9165; 9176, 9187,9198	

acct#13013 Cap#1250463 Sample#6309771-83

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA8N-SB-2.5	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA8N-SB-2.0-3.0	06.07.11	0905	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-122-SA8N-SB-2.5	06.07.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-122-SA8N-SB-2.0-3.0	06.07.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-140-SA8N-SB-3.5	06.07.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA8N-SB-3.0-4.0	06.07.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-133-SA8N-SB-7.5	06.06.11	1710	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA8N-SB-7.0-8.0	06.06.11	1715	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060711	06.07.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0930	Airbill No.(s) 8754 3339 9165; 9176, 9187,9198	

acct#13013 Gp#1250463 sample#6309771-83

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					VOCs	SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	1-250mL Glass				X							
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NaOH	1-500 poly							X				
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	HCL	5-40mL Vials	X									X	
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	4-40mL Vials			X						X		
Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0930		Airbill No.(s) 8754 3339 9165; 9176, 9187													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/09/2011
Group Number: 1250632
SDG: DE176
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA5DN-SB-4.0-5.0 Soil	6310767
SL-023-SA5DN-SB-20.0-21.0 Soil	6310768
SL-025-SA5DN-SB-4.0-5.0 Soil	6310769
SL-025-SA5DN-SB-23.0-24.0 Soil	6310770
SL-028-SA5DN-SB-4.0-5.0 Soil	6310771
SL-028-SA5DN-SB-11.5-12.5 Soil	6310772
SL-051-SA5DN-SB-4.0-5.0 Soil	6310773
SL-051-SA5DN-SB-14.0-15.0 Soil	6310774
SL-076-SA8N-SB-4.0-5.0 Soil	6310775
SL-076-SA8N-SB-4.0-5.0MS Soil	6310776
SL-076-SA8N-SB-4.0-5.0MSD Soil	6310777
SL-076-SA8N-SB-4.0-5.0DUP Soil	6310778
SL-076-SA8N-SB-7.5-8.5 Soil	6310779
SL-106-SA8N-SB-2.5-3.5 Soil	6310780
SL-109-SA8N-SB-4.0-5.0 Soil	6310781
SL-109-SA8N-SB-9.0-10.0 Soil	6310782
DUP10-SA8N-QC-060811 Soil	6310783
TB-060811 Water	6310784
EB16-SA8N-SB-060811 Water	6310785

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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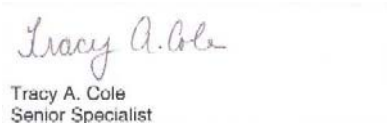
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.3		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.12	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.3	J	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylnaphthalene	91-57-6	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	10	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.6		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.3	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

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17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		6.86	22.7		1
07914	Boron	7440-42-8	8.87		0.408	5.67		1
01650	Calcium	7440-70-2	13,900		2.83	22.7		1
01654	Iron	7439-89-6	33,400		14.8	113		5
01656	Lithium	7439-93-2	26.5		0.70	2.3		1
01657	Magnesium	7439-95-4	6,920		0.499	11.3		1
06958	Manganese	7439-96-5	362		0.0408	0.567		1
10145	Phosphorus	7723-14-0	308		0.397	11.3		1
01662	Potassium	7440-09-7	3,550		12.8	56.7		1
01667	Sodium	7440-23-5	463		6.75	113		1
07968	Strontium	7440-24-6	43.4		0.0283	0.567		1
06969	Tin	7440-31-5	2.71	J	0.363	11.3		1
06970	Titanium	7440-32-6	1,050		0.0805	1.13		1
10146	Zirconium	7440-67-7	4.26	J	0.522	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.361		0.0815	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.03		0.0881	0.440		2
06126	Barium	7440-39-3	168		0.117	0.440		2
06127	Beryllium	7440-41-7	1.06		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.320		0.0484	0.110		2
06131	Chromium	7440-47-3	35.4		0.132	0.440		2
06132	Cobalt	7440-48-4	12.6		0.0220	0.110		2
06133	Copper	7440-50-8	20.5		0.0881	0.440		2
06135	Lead	7439-92-1	12.6		0.0112	0.220		2
06138	Molybdenum	7439-98-7	0.592		0.0550	0.110		2
06139	Nickel	7440-02-0	26.7		0.110	0.440		2
06141	Selenium	7782-49-2	0.119	J	0.0638	0.440		2
06142	Silver	7440-22-4	0.0545	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.400		0.0330	0.110		2
06148	Vanadium	7440-62-2	64.2		0.0242	0.110		2
06149	Zinc	7440-66-6	94.6		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 15:39	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:03	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:55	Christopher D Meeks	n.a.

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:11	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 17:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 14:14	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 15:46	Marie D John	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/16/2011 23:22	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:00	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:14	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 08:58	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 16:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:17	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 16:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 16:56	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3		6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.5	J	0.24	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.2		18.1	36.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.70	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.44	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		6.45	21.3		1
07914	Boron	7440-42-8	5.33	J	0.384	5.33		1
01650	Calcium	7440-70-2	4,830		2.67	21.3		1
01654	Iron	7439-89-6	26,700		2.78	21.3		1
01656	Lithium	7439-93-2	29.7		0.66	2.1		1
01657	Magnesium	7439-95-4	5,700		0.469	10.7		1
06958	Manganese	7439-96-5	259		0.0384	0.533		1
10145	Phosphorus	7723-14-0	409		0.373	10.7		1
01662	Potassium	7440-09-7	3,210		12.1	53.3		1
01667	Sodium	7440-23-5	250		6.35	107		1
07968	Strontium	7440-24-6	32.1		0.0267	0.533		1
06969	Tin	7440-31-5	2.48	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,290		0.0757	1.07		1
10146	Zirconium	7440-67-7	3.18	J	0.491	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.323		0.0790	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.43		0.0854	0.427		2
06126	Barium	7440-39-3	152		0.113	0.427		2
06127	Beryllium	7440-41-7	1.06		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.135		0.0469	0.107		2
06131	Chromium	7440-47-3	34.5		0.128	0.427		2
06132	Cobalt	7440-48-4	17.3		0.0213	0.107		2
06133	Copper	7440-50-8	21.8		0.0854	0.427		2
06135	Lead	7439-92-1	11.1		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.763		0.0533	0.107		2
06139	Nickel	7440-02-0	31.2		0.107	0.427		2
06141	Selenium	7782-49-2	0.0619	U	0.0619	0.427		2
06142	Silver	7440-22-4	0.104	J	0.0151	0.107		2

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SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.480	0.0320	0.107		2
06148	Vanadium	7440-62-2	59.0	0.0235	0.107		2
06149	Zinc	7440-66-6	92.3	0.597	3.20		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6	0.88	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA5DN-SB-20.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:02	Chelsea B Eastep	0.89

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SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
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17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:24	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 18:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 14:54	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 16:23	Marie D John	20.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 00:04	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:10	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:11	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 09:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 16:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/20/2011 00:27	David K Beck	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 17:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.87
06192	Methylene Chloride	75-09-2	1.5	J	0.24	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.16	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.9		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1

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SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		6.77	22.4		1
07914	Boron	7440-42-8	9.54		0.403	5.59		1
01650	Calcium	7440-70-2	27,100		2.80	22.4		1
01654	Iron	7439-89-6	34,700		14.6	112		5
01656	Lithium	7439-93-2	28.6		0.69	2.2		1
01657	Magnesium	7439-95-4	7,340		0.492	11.2		1
06958	Manganese	7439-96-5	660		0.0403	0.559		1
10145	Phosphorus	7723-14-0	208		0.392	11.2		1
01662	Potassium	7440-09-7	2,620		12.6	55.9		1
01667	Sodium	7440-23-5	410		6.66	112		1
07968	Strontium	7440-24-6	47.2		0.0280	0.559		1
06969	Tin	7440-31-5	2.59	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,220		0.0794	1.12		1
10146	Zirconium	7440-67-7	3.61	J	0.515	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.465		0.0828	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0895	0.448		2
06126	Barium	7440-39-3	173		0.296	1.12		5
06127	Beryllium	7440-41-7	1.57		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.324		0.0492	0.112		2
06131	Chromium	7440-47-3	42.5		0.134	0.448		2
06132	Cobalt	7440-48-4	23.6		0.0224	0.112		2
06133	Copper	7440-50-8	24.3		0.0895	0.448		2
06135	Lead	7439-92-1	14.8		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.559		0.0559	0.112		2
06139	Nickel	7440-02-0	45.0		0.112	0.448		2
06141	Selenium	7782-49-2	0.0811	J	0.0649	0.448		2
06142	Silver	7440-22-4	0.0468	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.468		0.0336	0.112		2
06148	Vanadium	7440-62-2	75.0		0.0246	0.112		2
06149	Zinc	7440-66-6	86.9		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
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17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:24	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:44	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:08	Christopher D Meeks	n.a.

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17603 SDG#: DE176-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 18:41	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 15:34	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 16:59	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 00:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:19	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:51	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 09:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 17:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:21	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:25	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 17:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:24	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.2	8.6		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.97
06192	Methylene Chloride	75-09-2	1.8	J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.97

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.97
06192	Toluene	108-88-3	0.19	J	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.97
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	49.8		18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.45
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1

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Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.49	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.4		0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.46	21.3		1
07914	Boron	7440-42-8	3.75	J	0.384	5.34		1
01650	Calcium	7440-70-2	4,470		2.67	21.3		1
01654	Iron	7439-89-6	19,500		2.79	21.3		1
01656	Lithium	7439-93-2	19.7		0.66	2.1		1
01657	Magnesium	7439-95-4	3,980		0.470	10.7		1
06958	Manganese	7439-96-5	128		0.0384	0.534		1
10145	Phosphorus	7723-14-0	331		0.374	10.7		1
01662	Potassium	7440-09-7	2,380		12.1	53.4		1
01667	Sodium	7440-23-5	119		6.35	107		1
07968	Strontium	7440-24-6	21.7		0.0267	0.534		1
06969	Tin	7440-31-5	2.51	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,020		0.0758	1.07		1
10146	Zirconium	7440-67-7	2.32	J	0.491	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0805	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0870	0.435		2
06126	Barium	7440-39-3	65.0		0.115	0.435		2
06127	Beryllium	7440-41-7	0.590		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0864	J	0.0479	0.109		2
06131	Chromium	7440-47-3	20.8		0.131	0.435		2
06132	Cobalt	7440-48-4	4.17		0.0218	0.109		2
06133	Copper	7440-50-8	13.3		0.0870	0.435		2
06135	Lead	7439-92-1	5.61		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.245		0.0544	0.109		2
06139	Nickel	7440-02-0	13.6		0.109	0.435		2
06141	Selenium	7782-49-2	0.0631	U	0.0631	0.435		2
06142	Silver	7440-22-4	0.0450	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.288		0.0326	0.109		2
06148	Vanadium	7440-62-2	38.1		0.0239	0.109		2
06149	Zinc	7440-66-6	61.0		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5DN-SB-23.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:46	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:04	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:11	Christopher D Meeks	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
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17604 SDG#: DE176-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:06	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 19:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 16:14	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 17:36	Marie D John	23.45
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 01:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 10:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 18:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2

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17604 SDG#: DE176-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 18:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.86
06192	Methylene Chloride	75-09-2	1.5	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.14	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	390		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1

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SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1

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SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
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17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1

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17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.58	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.54	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.57	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	5.6		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.99	J	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		6.94	22.9		1
07914	Boron	7440-42-8	7.70		0.413	5.73		1
01650	Calcium	7440-70-2	8,340		2.87	22.9		1
01654	Iron	7439-89-6	32,500		15.0	115		5
01656	Lithium	7439-93-2	22.5		0.71	2.3		1
01657	Magnesium	7439-95-4	6,200		0.505	11.5		1
06958	Manganese	7439-96-5	434		0.0413	0.573		1
10145	Phosphorus	7723-14-0	276		0.401	11.5		1
01662	Potassium	7440-09-7	4,140		13.0	57.3		1
01667	Sodium	7440-23-5	507		6.82	115		1
07968	Strontium	7440-24-6	40.9		0.0287	0.573		1
06969	Tin	7440-31-5	2.84	J	0.367	11.5		1
06970	Titanium	7440-32-6	589		0.0814	1.15		1
10146	Zirconium	7440-67-7	2.07	J	0.527	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.731		0.0865	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.54		0.0936	0.468		2
06126	Barium	7440-39-3	197		0.124	0.468		2
06127	Beryllium	7440-41-7	1.06		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.414		0.0515	0.117		2
06131	Chromium	7440-47-3	48.2		0.140	0.468		2
06132	Cobalt	7440-48-4	14.9		0.0234	0.117		2
06133	Copper	7440-50-8	53.1		0.0936	0.468		2
06135	Lead	7439-92-1	13.4		0.0119	0.234		2
06138	Molybdenum	7439-98-7	2.30		0.0585	0.117		2
06139	Nickel	7440-02-0	38.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.247	J	0.0678	0.468		2
06142	Silver	7440-22-4	0.108	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.483		0.0351	0.117		2
06148	Vanadium	7440-62-2	65.6		0.0257	0.117		2
06149	Zinc	7440-66-6	97.1		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA5DN-SB-23.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:08	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:24	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:24	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 19:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 16:53	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 18:12	Marie D John	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 02:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:38	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:17	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:28	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 14:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 07:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:24	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1

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Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 18:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.6	9.1		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.01
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.5		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.01
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.01
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.01
06192	Chloromethane	74-87-3	0.38	U	0.38	4.5		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.01
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.5		1.01
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.01
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.01
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		1.01
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.01
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.01
06192	Methylene Chloride	75-09-2	1.7	J	0.27	4.5		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.01

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.01
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.01
06192	Toluene	108-88-3	0.14	J	0.09	4.5		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.01
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.5		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.01
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.01
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	371		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	12	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	120		1.8	9.4		5
10225	PCB-1254	11097-69-1	77		1.8	9.4		5
10225	PCB-1260	11096-82-5	11		2.2	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	3.0		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	24		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	56		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		6.58	21.7		1
07914	Boron	7440-42-8	6.60		0.391	5.44		1
01650	Calcium	7440-70-2	16,100		2.72	21.7		1
01654	Iron	7439-89-6	26,200		2.84	21.7		1
01656	Lithium	7439-93-2	20.8		0.67	2.2		1
01657	Magnesium	7439-95-4	4,980		0.478	10.9		1
06958	Manganese	7439-96-5	330		0.0391	0.544		1
10145	Phosphorus	7723-14-0	409		0.381	10.9		1
01662	Potassium	7440-09-7	2,630		12.3	54.4		1
01667	Sodium	7440-23-5	444		6.47	109		1
07968	Strontium	7440-24-6	40.1		0.0272	0.544		1
06969	Tin	7440-31-5	2.45	J	0.348	10.9		1
06970	Titanium	7440-32-6	1,120		0.0772	1.09		1
10146	Zirconium	7440-67-7	3.69	J	0.500	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.405		0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.50		0.0861	0.431		2
06126	Barium	7440-39-3	169		0.114	0.431		2
06127	Beryllium	7440-41-7	0.714		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.207		0.0474	0.108		2
06131	Chromium	7440-47-3	32.2		0.129	0.431		2
06132	Cobalt	7440-48-4	8.61		0.0215	0.108		2
06133	Copper	7440-50-8	20.7		0.0861	0.431		2
06135	Lead	7439-92-1	8.14		0.0110	0.215		2
06138	Molybdenum	7439-98-7	1.11		0.0538	0.108		2
06139	Nickel	7440-02-0	21.6		0.108	0.431		2
06141	Selenium	7782-49-2	0.130	J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0501	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.317		0.0323	0.108		2
06148	Vanadium	7440-62-2	79.6		0.0237	0.108		2
06149	Zinc	7440-66-6	60.3		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:31	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:44	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:43	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 17:33	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 18:49	Marie D John	25.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 02:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:57	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:46	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 15:36	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 03:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.3	8.7		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.4		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.96
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.15	J	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.4		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.4		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	29.0	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.55	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.7		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		6.86	22.7		1
07914	Boron	7440-42-8	8.42		0.408	5.67		1
01650	Calcium	7440-70-2	22,800		2.83	22.7		1
01654	Iron	7439-89-6	33,900		14.8	113		5
01656	Lithium	7439-93-2	26.8		0.70	2.3		1
01657	Magnesium	7439-95-4	6,950		0.499	11.3		1
06958	Manganese	7439-96-5	592		0.0408	0.567		1
10145	Phosphorus	7723-14-0	212		0.397	11.3		1
01662	Potassium	7440-09-7	2,790		12.8	56.7		1
01667	Sodium	7440-23-5	710		6.75	113		1
07968	Strontium	7440-24-6	49.8		0.0283	0.567		1
06969	Tin	7440-31-5	2.66	J	0.363	11.3		1
06970	Titanium	7440-32-6	930		0.0805	1.13		1
10146	Zirconium	7440-67-7	3.18	J	0.522	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.442		0.0839	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0907	0.454		2
06126	Barium	7440-39-3	168		0.300	1.13		5
06127	Beryllium	7440-41-7	1.82		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.427		0.0499	0.113		2
06131	Chromium	7440-47-3	42.9		0.136	0.454		2
06132	Cobalt	7440-48-4	17.8		0.0227	0.113		2
06133	Copper	7440-50-8	22.4		0.0907	0.454		2
06135	Lead	7439-92-1	15.2		0.0116	0.227		2
06138	Molybdenum	7439-98-7	0.488		0.0567	0.113		2
06139	Nickel	7440-02-0	40.2		0.113	0.454		2
06141	Selenium	7782-49-2	0.119	J	0.0658	0.454		2
06142	Silver	7440-22-4	0.0596	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.500		0.0340	0.113		2
06148	Vanadium	7440-62-2	75.3		0.0249	0.113		2
06149	Zinc	7440-66-6	89.2		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.4	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.8	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:53	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:04	Jason M Long	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:23	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 18:04	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 19:26	Marie D John	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 05:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:07	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 23:05	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:56	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 02:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 02:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:36	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:29	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 18:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 18:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	1.6	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.14	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.4	J	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	4.3		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	9.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1

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LLI Sample # SW 6310774
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14420 Albemarle Point Place
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17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,000		6.71	22.2		1
07914	Boron	7440-42-8	6.50		0.399	5.54		1
01650	Calcium	7440-70-2	5,530		2.77	22.2		1
01654	Iron	7439-89-6	26,500		2.89	22.2		1
01656	Lithium	7439-93-2	24.5		0.69	2.2		1
01657	Magnesium	7439-95-4	5,480		0.488	11.1		1
06958	Manganese	7439-96-5	203		0.0399	0.554		1
10145	Phosphorus	7723-14-0	293		0.388	11.1		1
01662	Potassium	7440-09-7	2,920		12.5	55.4		1
01667	Sodium	7440-23-5	330		6.59	111		1
07968	Strontium	7440-24-6	31.9		0.0277	0.554		1
06969	Tin	7440-31-5	2.50	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,210		0.0787	1.11		1
10146	Zirconium	7440-67-7	3.85	J	0.510	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.316		0.0828	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.26		0.0895	0.448		2
06126	Barium	7440-39-3	137		0.119	0.448		2
06127	Beryllium	7440-41-7	0.883		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.335		0.0492	0.112		2
06131	Chromium	7440-47-3	31.9		0.134	0.448		2
06132	Cobalt	7440-48-4	12.5		0.0224	0.112		2
06133	Copper	7440-50-8	17.6		0.0895	0.448		2
06135	Lead	7439-92-1	9.94		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.606		0.0560	0.112		2
06139	Nickel	7440-02-0	28.8		0.112	0.448		2
06141	Selenium	7782-49-2	0.0649	U	0.0649	0.448		2
06142	Silver	7440-22-4	0.0477	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.425		0.0336	0.112		2
06148	Vanadium	7440-62-2	56.7		0.0246	0.112		2
06149	Zinc	7440-66-6	81.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1

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SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
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Project Name: SSFL Area IV Collocated Soil Sampling

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17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5DN-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:15	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:24	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 18:36	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 20:02	Marie D John	22.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 05:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:16	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 23:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 14:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 02:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 04:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 18:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 18:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 18:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.28	J	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.94	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	3.4		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.1		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.8		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		6.69	22.1		1
07914	Boron	7440-42-8	4.48	J	0.398	5.53		1
01650	Calcium	7440-70-2	2,430		2.77	22.1		1
01654	Iron	7439-89-6	23,200		2.89	22.1		1
01656	Lithium	7439-93-2	31.3		0.69	2.2		1
01657	Magnesium	7439-95-4	4,360		0.487	11.1		1
06958	Manganese	7439-96-5	280		0.0398	0.553		1
10145	Phosphorus	7723-14-0	238		0.387	11.1		1
01662	Potassium	7440-09-7	2,160		12.5	55.3		1
01667	Sodium	7440-23-5	122		6.58	111		1
07968	Strontium	7440-24-6	16.8		0.0277	0.553		1
06969	Tin	7440-31-5	2.85	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,210		0.0786	1.11		1
10146	Zirconium	7440-67-7	3.47	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.275		0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.52		0.0903	0.451		2
06126	Barium	7440-39-3	119		0.120	0.451		2
06127	Beryllium	7440-41-7	0.872		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0781	J	0.0497	0.113		2
06131	Chromium	7440-47-3	18.8		0.135	0.451		2
06132	Cobalt	7440-48-4	6.63		0.0226	0.113		2
06133	Copper	7440-50-8	10.2		0.0903	0.451		2
06135	Lead	7439-92-1	7.66		0.0115	0.226		2
06138	Molybdenum	7439-98-7	1.18		0.0564	0.113		2
06139	Nickel	7440-02-0	16.0		0.113	0.451		2
06141	Selenium	7782-49-2	0.127	J	0.0655	0.451		2
06142	Silver	7440-22-4	0.0697	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.333		0.0339	0.113		2
06148	Vanadium	7440-62-2	40.1		0.0248	0.113		2
06149	Zinc	7440-66-6	62.6		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0242	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:37	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:44	Jason M Long	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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17609 SDG#: DE176-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 17:58	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 21:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 11:55	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 21:52	Marie D John	20.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 06:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 10:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 19:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 15:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 15:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 18:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.4	7.6		0.84
06192	Benzene	71-43-2	20	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	17	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	20	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	19	0.08	3.8		0.84
06192	Bromoform	75-25-2	17	0.38	3.8		0.84
06192	Bromomethane	74-83-9	16	0.24	3.8		0.84
06192	2-Butanone	78-93-3	130	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	15	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	16	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	18	0.10	3.8		0.84
06192	Chloroethane	75-00-3	15	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.29	3.8		0.84
06192	Chloroform	67-66-3	21	0.11	3.8		0.84
06192	Chloromethane	74-87-3	18	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	16	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	17	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	18	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	18	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	17	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	16	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	18	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	21	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	21	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	22	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	20	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	19	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	18	0.06	3.8		0.84
06192	Freon 113	76-13-1	22	0.10	3.8		0.84
06192	Freon 133a	75-88-7	22	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	13	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	85	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	18	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	16	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	88	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	22	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	17	0.07	3.8		0.84

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	18		0.09	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	18		0.19	3.8		0.84
06192	Toluene	108-88-3	19		0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	20		0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	19		0.26	3.8		0.84
06192	Trichloroethene	79-01-6	19		0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	21		0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	17		0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	18		0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	37		0.16	3.8		0.84
06192	o-Xylene	95-47-6	18		0.16	3.8		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		4.6	14		20.49
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	646		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		19	190		1
04688	Acenaphthylene	208-96-8	1,500		19	190		1
04688	Aniline	62-53-3	980		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,500		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,300		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,300		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,300		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,600		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,400		19	190		1
04688	Carbazole	86-74-8	1,400		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		37	190		1
04688	4-Chloroaniline	106-47-8	950		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200	19	190		1
04688	2-Chlorophenol	95-57-8	1,300	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400	37	190		1
04688	Chrysene	218-01-9	1,500	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,400	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,400	19	190		1
04688	Diethylphthalate	84-66-2	1,400	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,400	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	190		1
04688	Dimethylphthalate	131-11-3	1,400	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,800	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,400	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	370		1
04688	Fluoranthene	206-44-0	1,400	19	190		1
04688	Fluorene	86-73-7	1,400	19	190		1
04688	Hexachlorobenzene	118-74-1	1,400	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	560		1
04688	Hexachloroethane	67-72-1	1,300	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,400	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,300	19	190		1
04688	2-Methylphenol	95-48-7	1,300	37	190		1
04688	4-Methylphenol	106-44-5	1,200	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	19	190		1
04688	2-Nitroaniline	88-74-4	1,400	19	190		1
04688	3-Nitroaniline	99-09-2	1,300	37	190		1
04688	4-Nitroaniline	100-01-6	1,000	75	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,400	19	190		1
04688	4-Nitrophenol	100-02-7	1,200	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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14420 Albemarle Point Place
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17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	1,400		19	190		1
04688	Pentachlorophenol	87-86-5	1,200		190	560		1
04688	Phenanthrene	85-01-8	1,400		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.75	1.9		1
10138	Acenaphthylene	208-96-8	30		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	45		6.8	20		1
10138	Chrysene	218-01-9	38		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	40		0.75	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	34		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	20		1
10138	Fluoranthene	206-44-0	40		0.75	1.9		1
10138	Fluorene	86-73-7	33		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	36		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.75	1.9		1
10138	Naphthalene	91-20-3	33		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	28		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	46		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.75	1.9		1
10138	Pyrene	129-00-0	32		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	5.6		0.2	0.9		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,000		63	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		42	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,100		42	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,000		42	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,000		42	130		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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14420 Albemarle Point Place
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17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	1,700		100	310		1
10132	Nitrobenzene	98-95-3	2,000		42	130		1
10132	Nitroglycerin	55-63-0	41,000		840	2,500		1
10132	2-Nitrotoluene	88-72-2	1,900		84	130		1
10132	3-Nitrotoluene	99-08-1	2,100		100	130		1
10132	4-Nitrotoluene	99-99-0	1,900		84	130		1
10132	PETN	78-11-5	52,000		840	2,500		1
10132	RDX	121-82-4	1,700		52	130		1
10132	Tetryl	479-45-8	1,400		64	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,700		42	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,000		42	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	18		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	23		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	4.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.8		0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		110	560		1
10501	Isopropanol	67-63-0	2,000		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	130		5.6	11		1
08283	Ethylene glycol	107-21-1	180		5.6	11		1
08283	Propylene glycol	57-55-6	170		5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		6.69	22.1		1
07914	Boron	7440-42-8	221		0.398	5.53		1
01650	Calcium	7440-70-2	3,050		2.77	22.1		1
01654	Iron	7439-89-6	24,600		2.89	22.1		1
01656	Lithium	7439-93-2	144		0.69	2.2		1
01657	Magnesium	7439-95-4	4,930		0.487	11.1		1
06958	Manganese	7439-96-5	298		0.0398	0.553		1
10145	Phosphorus	7723-14-0	352		0.387	11.1		1
01662	Potassium	7440-09-7	3,460		12.5	55.3		1
01667	Sodium	7440-23-5	1,210		6.58	111		1
07968	Strontium	7440-24-6	127		0.0277	0.553		1
06969	Tin	7440-31-5	391		0.354	11.1		1
06970	Titanium	7440-32-6	1,440		0.0786	1.11		1
10146	Zirconium	7440-67-7	113		0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.12		0.0819	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.9		0.0885	0.443		2
06126	Barium	7440-39-3	167		0.117	0.443		2
06127	Beryllium	7440-41-7	1.99		0.0177	0.111		2
06128	Cadmium	7440-43-9	1.75		0.0487	0.111		2
06131	Chromium	7440-47-3	36.6		0.133	0.443		2
06132	Cobalt	7440-48-4	88.2		0.0221	0.111		2
06133	Copper	7440-50-8	27.9		0.0885	0.443		2
06135	Lead	7439-92-1	14.5		0.0113	0.221		2
06138	Molybdenum	7439-98-7	18.2		0.0553	0.111		2
06139	Nickel	7440-02-0	36.2		0.111	0.443		2
06141	Selenium	7782-49-2	3.13		0.0642	0.443		2
06142	Silver	7440-22-4	16.6		0.0157	0.111		2
06145	Thallium	7440-28-0	1.05		0.0332	0.111		2
06148	Vanadium	7440-62-2	62.7		0.0243	0.111		2
06149	Zinc	7440-66-6	91.4		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.176	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0	0.90	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	531	10.2	33.9		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.7	1.1	5.6		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.2	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:59	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 19:43	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 12:04	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 18:35	Timothy J Trees	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 21:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 12:37	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 22:28	Marie D John	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 07:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 19:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:20	Choon Y Tian	2

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 16:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:50	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	6.3	7.6		0.84
06192	Benzene	71-43-2	20	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	17	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	19	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	19	0.08	3.8		0.84
06192	Bromoform	75-25-2	17	0.38	3.8		0.84
06192	Bromomethane	74-83-9	17	0.24	3.8		0.84
06192	2-Butanone	78-93-3	120	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	16	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	17	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	18	0.10	3.8		0.84
06192	Chloroethane	75-00-3	15	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.28	3.8		0.84
06192	Chloroform	67-66-3	20	0.11	3.8		0.84
06192	Chloromethane	74-87-3	19	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	16	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	15	0.46	4.6		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.66	3.8		0.84
06192	Dibromochloromethane	124-48-1	18	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	18	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	17	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	16	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	18	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	21	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	20	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	22	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	20	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	18	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	18	0.06	3.8		0.84
06192	Freon 113	76-13-1	22	0.10	3.8		0.84
06192	Freon 133a	75-88-7	20	0.46	4.6		0.82
06192	Hexachlorobutadiene	87-68-3	13	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	82	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	18	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	16	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	83	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	22	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	18	0.07	3.8		0.84

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	18		0.09	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	16		0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	18		0.19	3.8		0.84
06192	Toluene	108-88-3	19		0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	18		0.26	3.8		0.84
06192	Trichloroethene	79-01-6	19		0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	20		0.27	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	16		0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	19		0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	37		0.16	3.8		0.84
06192	o-Xylene	95-47-6	18		0.16	3.8		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120		4.8	14		21.26
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	645		18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		19	190		1
04688	Acenaphthylene	208-96-8	1,500		19	190		1
04688	Aniline	62-53-3	910		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,500		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,300		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,200		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,200		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,500		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		37	190		1
04688	4-Chloroaniline	106-47-8	940		74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200	19	190		1
04688	2-Chlorophenol	95-57-8	1,300	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400	37	190		1
04688	Chrysene	218-01-9	1,500	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,400	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,300	19	190		1
04688	Diethylphthalate	84-66-2	1,300	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,400	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,400	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	930	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,300	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,400	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	19	370		1
04688	Fluoranthene	206-44-0	1,400	19	190		1
04688	Fluorene	86-73-7	1,400	19	190		1
04688	Hexachlorobenzene	118-74-1	1,400	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	560		1
04688	Hexachloroethane	67-72-1	1,300	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,400	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,300	19	190		1
04688	2-Methylphenol	95-48-7	1,300	37	190		1
04688	4-Methylphenol	106-44-5	1,200	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	19	190		1
04688	2-Nitroaniline	88-74-4	1,500	19	190		1
04688	3-Nitroaniline	99-09-2	1,300	37	190		1
04688	4-Nitroaniline	100-01-6	1,000	74	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,400	19	190		1
04688	4-Nitrophenol	100-02-7	1,400	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	1,300		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	560		1
04688	Phenanthrene	85-01-8	1,400		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.75	1.9		1
10138	Acenaphthylene	208-96-8	31		0.38	1.9		1
10138	Anthracene	120-12-7	34		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	37		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	41		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	39		0.75	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	34		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47		6.8	20		1
10138	Fluoranthene	206-44-0	38		0.75	1.9		1
10138	Fluorene	86-73-7	33		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	34		0.75	1.9		1
10138	Naphthalene	91-20-3	34		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	29		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	33		0.75	1.9		1
10138	Pyrene	129-00-0	31		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.0		0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,000		63	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		42	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,200		42	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,000		42	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,000		42	130		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	1,700		100	310		1
10132	Nitrobenzene	98-95-3	2,100		42	130		1
10132	Nitroglycerin	55-63-0	42,000		840	2,500		1
10132	2-Nitrotoluene	88-72-2	2,000		84	130		1
10132	3-Nitrotoluene	99-08-1	2,200		100	130		1
10132	4-Nitrotoluene	99-99-0	2,000		84	130		1
10132	PETN	78-11-5	52,000		840	2,500		1
10132	RDX	121-82-4	1,700		52	130		1
10132	Tetryl	479-45-8	1,200		64	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,600		42	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,000		42	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,100		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	20		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	25		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	2.1		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	12		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	2.0		0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		110	560		1
10501	Isopropanol	67-63-0	2,000		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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CDM Federal Programs Corp.
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17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	100		5.6	11		1
08283	Ethylene glycol	107-21-1	140		5.6	11		1
08283	Propylene glycol	57-55-6	130		5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.5	4.0		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		6.63	21.9		1
07914	Boron	7440-42-8	223		0.394	5.48		1
01650	Calcium	7440-70-2	3,150		2.74	21.9		1
01654	Iron	7439-89-6	24,600		2.86	21.9		1
01656	Lithium	7439-93-2	143		0.68	2.2		1
01657	Magnesium	7439-95-4	4,920		0.482	11.0		1
06958	Manganese	7439-96-5	287		0.0394	0.548		1
10145	Phosphorus	7723-14-0	347		0.384	11.0		1
01662	Potassium	7440-09-7	3,510		12.4	54.8		1
01667	Sodium	7440-23-5	1,200		6.52	110		1
07968	Strontium	7440-24-6	126		0.0274	0.548		1
06969	Tin	7440-31-5	388		0.351	11.0		1
06970	Titanium	7440-32-6	1,540		0.0778	1.10		1
10146	Zirconium	7440-67-7	112		0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.10		0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.0		0.0894	0.447		2
06126	Barium	7440-39-3	167		0.118	0.447		2
06127	Beryllium	7440-41-7	2.16		0.0179	0.112		2
06128	Cadmium	7440-43-9	1.65		0.0492	0.112		2
06131	Chromium	7440-47-3	35.1		0.134	0.447		2
06132	Cobalt	7440-48-4	83.9		0.0223	0.112		2
06133	Copper	7440-50-8	27.2		0.0894	0.447		2
06135	Lead	7439-92-1	13.7		0.0114	0.223		2
06138	Molybdenum	7439-98-7	16.9		0.0559	0.112		2
06139	Nickel	7440-02-0	35.3		0.112	0.447		2
06141	Selenium	7782-49-2	2.87		0.0648	0.447		2
06142	Silver	7440-22-4	15.4		0.0159	0.112		2
06145	Thallium	7440-28-0	1.02		0.0335	0.112		2
06148	Vanadium	7440-62-2	61.2		0.0246	0.112		2
06149	Zinc	7440-66-6	89.4		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.174	0.0078	0.112		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 19:21	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:06	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 12:24	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 18:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 22:13	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 13:33	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 23:05	Marie D John	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 07:51	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:45	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:40	Sarah M Snyder	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 18:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 20:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:05	Damary Valentin	1

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		6.57	21.7		1
07914	Boron	7440-42-8	4.75	J	0.391	5.43		1
01650	Calcium	7440-70-2	2,430		2.71	21.7		1
01654	Iron	7439-89-6	27,100		2.83	21.7		1
01656	Lithium	7439-93-2	31.2		0.67	2.2		1
01657	Magnesium	7439-95-4	4,640		0.478	10.9		1
06958	Manganese	7439-96-5	757		0.0391	0.543		1
10145	Phosphorus	7723-14-0	272		0.380	10.9		1
01662	Potassium	7440-09-7	2,500		12.3	54.3		1
01667	Sodium	7440-23-5	126		6.46	109		1
07968	Strontium	7440-24-6	16.6		0.0271	0.543		1
06969	Tin	7440-31-5	2.80	J	0.347	10.9		1
06970	Titanium	7440-32-6	1,290		0.0771	1.09		1
10146	Zirconium	7440-67-7	5.69		0.499	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.58		0.0894	0.447		2
06126	Barium	7440-39-3	99.2		0.118	0.447		2
06127	Beryllium	7440-41-7	0.730		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0797	J	0.0492	0.112		2
06131	Chromium	7440-47-3	16.1		0.134	0.447		2
06132	Cobalt	7440-48-4	5.40		0.0223	0.112		2
06133	Copper	7440-50-8	8.94		0.0894	0.447		2
06135	Lead	7439-92-1	6.19		0.0114	0.223		2
06138	Molybdenum	7439-98-7	1.03		0.0559	0.112		2
06139	Nickel	7440-02-0	13.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.109	J	0.0648	0.447		2
06142	Silver	7440-22-4	0.0709	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.288		0.0335	0.112		2
06148	Vanadium	7440-62-2	34.1		0.0246	0.112		2
06149	Zinc	7440-66-6	53.8		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 15:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.8	8.2		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	1.4	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.89
06192	Toluene	108-88-3	0.20	J	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.5	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.7		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		6.76	22.3		1
07914	Boron	7440-42-8	3.81	J	0.402	5.59		1
01650	Calcium	7440-70-2	1,990		2.79	22.3		1
01654	Iron	7439-89-6	20,900		2.92	22.3		1
01656	Lithium	7439-93-2	23.8		0.69	2.2		1
01657	Magnesium	7439-95-4	4,140		0.492	11.2		1
06958	Manganese	7439-96-5	156		0.0402	0.559		1
10145	Phosphorus	7723-14-0	234		0.391	11.2		1
01662	Potassium	7440-09-7	1,510		12.6	55.9		1
01667	Sodium	7440-23-5	156		6.65	112		1
07968	Strontium	7440-24-6	24.0		0.0279	0.559		1
06969	Tin	7440-31-5	3.00	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,240		0.0793	1.12		1
10146	Zirconium	7440-67-7	3.24	J	0.514	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0843	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.6		0.0911	0.456		2
06126	Barium	7440-39-3	114		0.121	0.456		2
06127	Beryllium	7440-41-7	0.791		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0512	J	0.0501	0.114		2
06131	Chromium	7440-47-3	20.0		0.137	0.456		2
06132	Cobalt	7440-48-4	7.48		0.0228	0.114		2
06133	Copper	7440-50-8	8.54		0.0911	0.456		2
06135	Lead	7439-92-1	8.54		0.0116	0.228		2
06138	Molybdenum	7439-98-7	1.18		0.0570	0.114		2
06139	Nickel	7440-02-0	15.0		0.114	0.456		2
06141	Selenium	7782-49-2	0.273	J	0.0661	0.456		2
06142	Silver	7440-22-4	0.130		0.0162	0.114		2
06145	Thallium	7440-28-0	0.295		0.0342	0.114		2
06148	Vanadium	7440-62-2	42.8		0.0251	0.114		2
06149	Zinc	7440-66-6	69.3		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:28	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:04	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 22:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 19:07	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 23:41	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 08:33	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:52	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 21:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 19:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 19:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 20:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.4	7.6		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	1.6	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.19	J	0.08	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	31.0	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		6.78	22.4		1
07914	Boron	7440-42-8	4.39	J	0.404	5.61		1
01650	Calcium	7440-70-2	3,750		2.80	22.4		1
01654	Iron	7439-89-6	29,100		2.93	22.4		1
01656	Lithium	7439-93-2	21.6		0.70	2.2		1
01657	Magnesium	7439-95-4	4,550		0.493	11.2		1
06958	Manganese	7439-96-5	137		0.0404	0.561		1
10145	Phosphorus	7723-14-0	126		0.392	11.2		1
01662	Potassium	7440-09-7	1,590		12.7	56.1		1
01667	Sodium	7440-23-5	268		6.67	112		1
07968	Strontium	7440-24-6	30.4		0.0280	0.561		1
06969	Tin	7440-31-5	3.19	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,120		0.0796	1.12		1
10146	Zirconium	7440-67-7	2.94	J	0.516	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0855	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0924	0.462		2
06126	Barium	7440-39-3	86.3		0.122	0.462		2
06127	Beryllium	7440-41-7	0.690		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.0653	J	0.0508	0.115		2
06131	Chromium	7440-47-3	21.6		0.139	0.462		2
06132	Cobalt	7440-48-4	5.25		0.0231	0.115		2
06133	Copper	7440-50-8	10.5		0.0924	0.462		2
06135	Lead	7439-92-1	7.72		0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.436		0.0577	0.115		2
06139	Nickel	7440-02-0	12.0		0.115	0.462		2
06141	Selenium	7782-49-2	0.0670	U	0.0670	0.462		2
06142	Silver	7440-22-4	0.0210	J	0.0164	0.115		2
06145	Thallium	7440-28-0	0.288		0.0346	0.115		2
06148	Vanadium	7440-62-2	36.0		0.0254	0.115		2
06149	Zinc	7440-66-6	58.9		0.647	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA8N-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:50	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:24	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:42	Christopher D Meeks	n.a.

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:06	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 19:46	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/14/2011 00:18	Marie D John	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 09:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:04	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 12:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 22:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 19:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 19:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 20:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:26	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	27		6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	2.5	J	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	1.0	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.42
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	2,700		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		6.94	22.9		1
07914	Boron	7440-42-8	5.38	J	0.413	5.73		1
01650	Calcium	7440-70-2	4,210		2.87	22.9		1
01654	Iron	7439-89-6	25,100		2.99	22.9		1
01656	Lithium	7439-93-2	22.3		0.71	2.3		1
01657	Magnesium	7439-95-4	5,110		0.505	11.5		1
06958	Manganese	7439-96-5	276		0.0413	0.573		1
10145	Phosphorus	7723-14-0	342		0.401	11.5		1
01662	Potassium	7440-09-7	3,180		13.0	57.3		1
01667	Sodium	7440-23-5	85.2	J	6.82	115		1
07968	Strontium	7440-24-6	24.1		0.0287	0.573		1
06969	Tin	7440-31-5	3.03	J	0.367	11.5		1
06970	Titanium	7440-32-6	1,260		0.0814	1.15		1
10146	Zirconium	7440-67-7	3.42	J	0.528	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0849	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.0917	0.459		2
06126	Barium	7440-39-3	96.9		0.122	0.459		2
06127	Beryllium	7440-41-7	0.765		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.161		0.0505	0.115		2
06131	Chromium	7440-47-3	23.3		0.138	0.459		2
06132	Cobalt	7440-48-4	8.83		0.0229	0.115		2
06133	Copper	7440-50-8	14.5		0.0917	0.459		2
06135	Lead	7439-92-1	7.63		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.409		0.0573	0.115		2
06139	Nickel	7440-02-0	19.3		0.115	0.459		2
06141	Selenium	7782-49-2	0.0665	U	0.0665	0.459		2
06142	Silver	7440-22-4	0.0258	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.336		0.0344	0.115		2
06148	Vanadium	7440-62-2	45.3		0.0252	0.115		2
06149	Zinc	7440-66-6	75.5		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:13	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:44	Jason M Long	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:45	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 20:25	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/14/2011 00:54	Marie D John	20.42
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 09:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:14	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 12:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 04:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 22:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	32		6.8	8.1		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	2.5	J	1.2	8.1		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.87
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.16	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.94

GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10

Reporting limits were raised due to interference from the sample matrix.

This sample was extracted outside of the method required holding time due to a laboratory error.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	3,100		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.95	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.92	22.9		1
07914	Boron	7440-42-8	5.53	J	0.412	5.72		1
01650	Calcium	7440-70-2	7,420		2.86	22.9		1
01654	Iron	7439-89-6	27,500		2.99	22.9		1
01656	Lithium	7439-93-2	24.6		0.71	2.3		1
01657	Magnesium	7439-95-4	5,620		0.504	11.4		1
06958	Manganese	7439-96-5	298		0.0412	0.572		1
10145	Phosphorus	7723-14-0	356		0.401	11.4		1
01662	Potassium	7440-09-7	3,190		12.9	57.2		1
01667	Sodium	7440-23-5	185		6.81	114		1
07968	Strontium	7440-24-6	32.6		0.0286	0.572		1
06969	Tin	7440-31-5	2.76	J	0.366	11.4		1
06970	Titanium	7440-32-6	1,360		0.0813	1.14		1
10146	Zirconium	7440-67-7	3.38	J	0.527	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216	J	0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.47		0.0889	0.445		2
06126	Barium	7440-39-3	127		0.118	0.445		2
06127	Beryllium	7440-41-7	0.870		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.175		0.0489	0.111		2
06131	Chromium	7440-47-3	26.1		0.133	0.445		2
06132	Cobalt	7440-48-4	10.7		0.0222	0.111		2
06133	Copper	7440-50-8	16.3		0.0889	0.445		2
06135	Lead	7439-92-1	11.2		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.476		0.0556	0.111		2
06139	Nickel	7440-02-0	21.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.0645	U	0.0645	0.445		2
06142	Silver	7440-22-4	0.0633	J	0.0158	0.111		2

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.386		0.0333	0.111		2
06148	Vanadium	7440-62-2	50.8		0.0245	0.111		2
06149	Zinc	7440-66-6	92.4		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:35	Chelsea B Eastep	0.87

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
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17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 14:04	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11179SLC026	07/02/2011 00:32	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:59	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/27/2011 08:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	2	11179SLC026	06/29/2011 02:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 13:46	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 10:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:23	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:31	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 05:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 22:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-109-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0		6.5	7.8		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.86
06192	Methylene Chloride	75-09-2	1.6	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.30	J	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	J	18.7	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	49	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.4		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.54	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.4		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.99	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,700		6.64	22.0		1
07914	Boron	7440-42-8	4.54	J	0.395	5.49		1
01650	Calcium	7440-70-2	2,430		2.75	22.0		1
01654	Iron	7439-89-6	23,100		2.87	22.0		1
01656	Lithium	7439-93-2	31.4		0.68	2.2		1
01657	Magnesium	7439-95-4	4,370		0.483	11.0		1
06958	Manganese	7439-96-5	230		0.0395	0.549		1
10145	Phosphorus	7723-14-0	240		0.384	11.0		1
01662	Potassium	7440-09-7	2,150		12.4	54.9		1
01667	Sodium	7440-23-5	134		6.53	110		1
07968	Strontium	7440-24-6	16.9		0.0275	0.549		1
06969	Tin	7440-31-5	2.82	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,190		0.0780	1.10		1
10146	Zirconium	7440-67-7	3.14	J	0.505	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0821	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.5		0.0887	0.444		2
06126	Barium	7440-39-3	165		0.118	0.444		2
06127	Beryllium	7440-41-7	1.07		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.113		0.0488	0.111		2
06131	Chromium	7440-47-3	22.3		0.133	0.444		2
06132	Cobalt	7440-48-4	8.70		0.0222	0.111		2
06133	Copper	7440-50-8	12.6		0.0887	0.444		2
06135	Lead	7439-92-1	9.71		0.0113	0.222		2
06138	Molybdenum	7439-98-7	1.45		0.0555	0.111		2
06139	Nickel	7440-02-0	20.0		0.111	0.444		2
06141	Selenium	7782-49-2	0.128	J	0.0643	0.444		2
06142	Silver	7440-22-4	0.0883	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.406		0.0333	0.111		2
06148	Vanadium	7440-62-2	49.0		0.0244	0.111		2
06149	Zinc	7440-66-6	85.1		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0320	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:58	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 15:35	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/24/2011 00:26	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/27/2011 09:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 14:22	Marie D John	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 11:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:42	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 07:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 23:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 23:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060811 Water
SSFL Area IV Collocated Soil Sampling
TB-060811

LLI Sample # WW 6310784
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 08:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17615 SDG#: DE176-15TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060811 Water
SSFL Area IV Collocated Soil Sampling
TB-060811

LLI Sample # WW 6310784
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 08:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17615 SDG#: DE176-15TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:33	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 13:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 13:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:33	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11166B20A	06/16/2011 08:48	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11166B20A	06/16/2011 08:48	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-Nitroaniline 2,6-Dinitrotoluene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.71	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.30	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.069	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.060		0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 0.06 ug/l. The blank value was not subtracted from the analytical result. The sample was re-extracted outside of the method required holding time and Bis(2-ethylhexyl)phthalate was again detected in the method blank and sample.

The recoveries of several compounds were outside of QC limits in the LCS/LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000066 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000060 J	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:55	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 13:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 13:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:55	Kevin A Sposito	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11160WAL026	06/22/2011 14:24	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11160WAK026	06/17/2011 01:06	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11160WAL026	06/10/2011 08:30	Catherine R Wiker	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11160WAK026	06/09/2011 20:00	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111650015A	06/16/2011 18:27	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111650015A	06/14/2011 16:10	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:28	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111606050001D	06/14/2011 13:14	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111606050001C	06/14/2011 13:14	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111606050001B	06/14/2011 13:14	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111605713002	06/11/2011 10:36	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111606050001	06/09/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111605713002	06/09/2011 15:25	Nelli S Markaryan	1

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Analysis Report

Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11161196601B	06/20/2011 03:19	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11165621702A	06/15/2011 19:58	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	2	11160281401A	06/09/2011 14:21	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11160020003A	06/09/2011 19:30	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111652AA	Sample number(s): 6310767-6310777,6310779-6310783									
Acetone	8.3		6.7	8.0	ug/kg	123		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	110		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	115		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	108		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	110		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	129		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	97		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	106		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	73		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	105		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	111		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	92		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	80		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	129*		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	108		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	115		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	110		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	110		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	118		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	108		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	107		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	113		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	109		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	106		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	106		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	107		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	105		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	82		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98		75-120		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	117		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	132		61-134		
Methylene Chloride	1.7	J	0.24	4.0	ug/kg	125*		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	107		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	108		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	113		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104		77-120		
Toluene	0.14	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	111		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	106		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	116		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	108		80-120		
Batch number: E111601AA	Sample number(s): 6310784-6310785									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102		80-123		
Batch number: E111621AA	Sample number(s): 6310767-6310777,6310779-6310782									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	108	70-130	1	30
Batch number: E111642AA	Sample number(s): 6310783									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6310784-6310785									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11160WAK026	Sample number(s): 6310785									
Acenaphthene	0.010	U	0.010	0.050	ug/l	129*	132*	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	132*	124*	70-110	6	30
Anthracene	0.010	U	0.010	0.050	ug/l	140*	130*	66-111	7	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	129*	129*	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	130*	148*	60-127	12	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	127*	125*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	124	136*	57-131	9	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	135*	138*	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	125	126	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	133*	149*	74-131	12	30
Chrysene	0.010	U	0.010	0.050	ug/l	131*	129*	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	149*	172*	55-134	14	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	137*	124	57-134	11	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	110	116	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.061	J	0.050	1.0	ug/l	126	124	57-154	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	138*	158*	75-116	14	30
Fluorene	0.010	U	0.010	0.050	ug/l	157*	128*	75-114	21	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	145*	162*	69-124	11	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	134*	119*	71-117	12	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	118*	100	75-115	17	30
Naphthalene	0.030	U	0.030	0.050	ug/l	128*	126*	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	80	62	36-89	26	30
Di-n-octylphthalate	0.065	J	0.050	1.0	ug/l	136	125	57-145	8	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	130*	127*	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	146*	130*	69-118	12	30
Batch number: 11160WAL026	Sample number(s): 6310785									
Aniline	1	U	1.	5	ug/l	112*	104*	49-101	7	30
Benzidine	20	U	20.	60	ug/l	137*	116	34-117	16	30
Benzoic acid	6	U	6.	15	ug/l	33	32	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	71	74	66-97	4	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	88	87	82-117	2	30
Carbazole	1	U	1.	5	ug/l	92	85	81-114	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	87	86	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	146*	120	42-124	20	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	84	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	86	80	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	85	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	71	54-132	9	30
2-Chlorophenol	1	U	1.	5	ug/l	80	80	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	90	85	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	90	83	83-108	9	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	80	74	55-118	8	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	78	70	50-119	10	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	78	72	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	127*	121*	49-111	5	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	87	86	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	85	82	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	101	95	70-130	7	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	90	89	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	91	88	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	88	81	81-115	8	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	88	80*	85-115	9	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	90	86	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	91	86	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	82	76	57-124	7	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	72	62	36-118	15	30
Hexachloroethane	1	U	1.	5	ug/l	72	68	52-113	5	30
Isophorone	1	U	1.	5	ug/l	95	85	74-117	11	30
2-Methylphenol	1	U	1.	5	ug/l	84	84	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	79	80	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	87	81*	83-116	7	30
3-Nitroaniline	1	U	1.	5	ug/l	101	92	74-113	10	30
4-Nitroaniline	1	U	1.	5	ug/l	100	90	59-100	10	30
Nitrobenzene	1	U	1.	5	ug/l	93	84	75-109	10	30
2-Nitrophenol	1	U	1.	5	ug/l	89	87	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	59	58	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	74	70	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	86	82	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	94	90	53-110	4	30
Phenol	1	U	1.	5	ug/l	51	50	21-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	84	76	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	87	83	79-107	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	90	90	81-113	1	30
Batch number: 11161SLF026	Sample number(s): 6310767-6310777,6310779-6310781,6310783									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 11162SLB026	Sample number(s): 6310767-6310777,6310779-6310783									
Acenaphthene	17	U	17.	170	ug/kg	85		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	85		75-122		
Aniline	170 U		170.	500	ug/kg	85		34-94		
Anthracene	17	U	17.	170	ug/kg	88		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	104		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	122		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	96		67-125		
Benzoic acid	170 U		170.	500	ug/kg	86		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	89		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	86		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	87		79-112		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	82		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	114*		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	81		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	76		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	86		79-110		
Chrysene	17	U	17.	170	ug/kg	91		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	125		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	77*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	75		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	76		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	126*		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	81		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	83		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	84		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	84		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	78		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	84		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	19	J	17.	330	ug/kg	93		75-117		
Fluoranthene	17	U	17.	170	ug/kg	88		78-116		
Fluorene	17	U	17.	170	ug/kg	84		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	67	U	67.	170	ug/kg	82		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	73		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	123*		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	81		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	81		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	78		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	78		66-117		
Naphthalene	17	U	17.	170	ug/kg	82		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	82		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	80*		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	101		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	67		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	80		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	92		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenanthrene	17	U	17.	170	ug/kg	89		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	83		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	81		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	86		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 11167SLJ026	Sample number(s): 6310767-6310777,6310779-6310783									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	119		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11179SLC026	Sample number(s): 6310782									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	88		70-130		
Batch number: 11164A34A	Sample number(s): 6310767-6310777,6310779-6310781									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11165A34A	Sample number(s): 6310782-6310783									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11166B20A	Sample number(s): 6310784									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 111640008A	Sample number(s): 6310767-6310777,6310779-6310783									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	101	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	102	100	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
HMX	100 U		100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	88		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	120		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	112		80-120		
PETN	800 U		800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
Batch number: 111660001A	Sample number(s): 6310767-6310777,6310779-6310783									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 111660019A	Sample number(s): 6310768,6310771									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111620007A	Sample number(s): 6310767-6310777,6310779-6310783									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	144*	120*	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	104		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	134		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111650015A	Sample number(s): 6310785									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	86*	88*	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	96	51-128	8	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	116	110	56-135	5	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111670011A	Sample number(s): 6310767-6310777,6310779-6310783									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	87		67-127		
EFH (C8-C11)	1.1	J	0.40	1.2	mg/kg	82		54-107		
Batch number: 111600024A	Sample number(s): 6310767-6310774									
Ethanol	100 U		100.	500	ug/kg	88		71-129		
Isopropanol	100 U		100.	500	ug/kg	85		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111600025A	Sample number(s): 6310767-6310777,6310779-6310783									
Diethylene glycol	5.0	U	5.0	10	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	107		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	106		75-125		
Batch number: 111610018A	Sample number(s): 6310775-6310777,6310779-6310783									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	83		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111660005A	Sample number(s): 6310767-6310777,6310779-6310783									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 111601848003	Sample number(s): 6310785									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	105	90-112	3	20
Boron	0.0138	U	0.0138	0.0500	mg/l	103	103	89-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	103	107	90-112	4	20
Iron	0.0522	U	0.0522	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	105	80-120	3	20
Magnesium	0.0195	J	0.0172	0.100	mg/l	104	108	89-110	3	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	108	108	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	109	103	80-120	5	20
Potassium	0.239	U	0.239	0.500	mg/l	102	106	85-115	4	20
Sodium	0.433	U	0.433	1.00	mg/l	102	105	87-114	3	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	107	106	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	0.0098 U	0.0098	0.0200	mg/l	107	102	90-110	5	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	108	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	102	107	80-120	5	20
Batch number: 111605713002	Sample number(s): 6310785								
Mercury	0.00012 J	0.00004 6	0.00020	mg/l	109	111	80-120	2	20
Batch number: 111606050001A	Sample number(s): 6310785								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	106	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	111	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	107	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	105	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	99	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	104	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	106	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	98	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	89-116	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	103	90-116	1	20
Batch number: 111606050001B	Sample number(s): 6310785								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	116*	85-114	8	20
Batch number: 111606050001C	Sample number(s): 6310785								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	2	20
Batch number: 111606050001D	Sample number(s): 6310785								
Barium	0.00053 U	0.00053	0.0020	mg/l	111	104	88-113	6	20
Batch number: 111671026001A	Sample number(s): 6310767-6310783								
Antimony	0.0740 U	0.0740	0.200	mg/kg	143		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	106		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		86-111		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	103		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0800 U	0.0800	0.400	mg/kg	101		83-110		
Lead	0.0152 J	0.0102	0.200	mg/kg	102		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	102		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	101		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	94		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	102		81-112		
Batch number: 111671026001B	Sample number(s): 6310767-6310783								
Selenium	0.0580 U	0.0580	0.400	mg/kg	103		83-111		
Batch number: 111671026001C	Sample number(s): 6310767-6310783								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 111671026001D	Sample number(s): 6310767-6310783								
Barium	0.106 U	0.106	0.400	mg/kg	100		81-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111675708002	Sample number(s): 6310767-6310783									
Aluminum	6.05	U	6.05	20.0	mg/kg	89		61-110		
Boron	0.360	U	0.360	5.00	mg/kg	92		78-110		
Calcium	4.40	J	2.50	20.0	mg/kg	99		88-110		
Iron	4.74	J	2.61	20.0	mg/kg	95		61-110		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	1.04	J	0.440	10.0	mg/kg	95		82-110		
Manganese	0.0360	U	0.0360	0.500	mg/kg	97		89-112		
Phosphorus	1.62	J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	94		78-110		
Sodium	5.95	U	5.95	100	mg/kg	93		87-110		
Strontium	0.0250	U	0.0250	0.500	mg/kg	95		86-110		
Tin	1.79	J	0.320	10.0	mg/kg	99		90-114		
Titanium	0.0710	U	0.0710	1.00	mg/kg	87		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 111675711002	Sample number(s): 6310767-6310783									
Mercury	0.0068	U	0.0068	0.0964	mg/kg	98		88-123		
Batch number: 11160281401A	Sample number(s): 6310785									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	107	106	90-110	1	20
Batch number: 11161196601B	Sample number(s): 6310785									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	107	90-110	1	20
Batch number: 11164243201A	Sample number(s): 6310767-6310776,6310778-6310783									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	101		80-120		
Batch number: 11165621702A	Sample number(s): 6310785									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	1	20
Batch number: 11166102201B	Sample number(s): 6310767-6310776,6310778									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11168102201A	Sample number(s): 6310779-6310783									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11169621202A	Sample number(s): 6310767-6310776,6310778-6310779									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11169621202B	Sample number(s): 6310780-6310783									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11171621203A	Sample number(s): 6310767-6310776,6310778-6310779									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11171621203B	Sample number(s): 6310780-6310783									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11160020003A	Sample number(s): 6310785									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11166039401A	Sample number(s): 6310767-6310775,6310778-6310779									
18a pH by 9045C						100		95-105		
Batch number: 11166039401B	Sample number(s): 6310780-6310783									

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Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
18a pH by 9045C					100		95-105		
Batch number: 11174162403A	Sample number(s): 6310767-6310778								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6310779-6310783								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111652AA	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acetone	102	99	15-210	3	30				
Benzene	104	105	55-143	0	30				
Bromobenzene	90	90	43-139	0	30				
Bromochloromethane	105	101	60-137	5	30				
Bromodichloromethane	101	100	53-136	2	30				
Bromoform	90	89	38-124	2	30				
Bromomethane	83	88	42-168	4	30				
2-Butanone	91	85	37-163	7	30				
n-Butylbenzene	81	83	30-146	2	30				
sec-Butylbenzene	86	88	33-157	2	30				
tert-Butylbenzene	86	87	41-152	0	30				
Carbon Tetrachloride	110	109	45-153	2	30				
Chlorobenzene	96	97	49-135	0	30				
Chloroethane	78	81	39-152	4	30				
2-Chloroethyl Vinyl Ether	81	76	32-139	8	30				
Chloroform	109	108	61-142	1	30				
Chloromethane	96	102	51-163	5	30				
2-Chlorotoluene	86	86	42-146	1	30				
4-Chlorotoluene	89	90	39-145	1	30				
Chlorotrifluoroethene	92	83	70-130	11	30				
1,2-Dibromo-3-chloropropane	89	85	30-139	5	30				
Dibromochloromethane	95	93	51-128	3	30				
1,2-Dibromoethane	96	93	54-129	3	30				
Dibromomethane	96	94	57-130	2	30				
1,2-Dichlorobenzene	89	88	36-133	1	30				
1,3-Dichlorobenzene	85	86	34-134	0	30				
1,4-Dichlorobenzene	86	87	35-136	0	30				
Dichlorodifluoromethane	92	92	26-151	0	30				
1,1-Dichloroethane	108	109	63-142	1	30				
1,2-Dichloroethane	110	108	68-131	2	30				
1,1-Dichloroethene	114	115	61-149	1	30				
cis-1,2-Dichloroethene	101	101	60-136	1	30				
trans-1,2-Dichloroethene	104	104	59-142	1	30				
1,2-Dichloropropane	101	101	62-135	0	30				
1,3-Dichloropropane	99	98	58-129	2	30				
2,2-Dichloropropane	110	111	53-147	0	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloropropene	104	106	54-145	1	30				
cis-1,3-Dichloropropene	94	95	51-131	1	30				
trans-1,3-Dichloropropene	91	92	49-129	0	30				
Ethylbenzene	94	97	44-141	2	30				
Freon 113	117	116	56-156	2	30				
Freon 133a	117	110	61-131	7	30				
Hexachlorobutadiene	66	67	10-155	2	30				
2-Hexanone	89	87	32-160	4	30				
Isopropylbenzene	94	95	38-144	1	30				
p-Isopropyltoluene	84	86	29-152	2	30				
Methyl Tertiary Butyl Ether	101	100	55-129	1	30				
4-Methyl-2-pentanone	92	87	46-139	6	30				
Methylene Chloride	109	108	61-141	2	30				
n-Propylbenzene	92	94	39-157	2	30				
Styrene	93	94	35-134	0	30				
1,1,1,2-Tetrachloroethane	98	99	52-130	1	30				
1,1,2,2-Tetrachloroethane	89	86	40-152	4	30				
Tetrachloroethene	94	96	42-149	1	30				
Toluene	98	100	50-146	1	30				
1,2,3-Trichlorobenzene	74	72	10-140	3	30				
1,2,4-Trichlorobenzene	67	67	10-136	0	30				
1,1,1-Trichloroethane	104	103	64-142	2	30				
1,1,2-Trichloroethane	97	96	54-139	2	30				
Trichloroethene	99	99	53-144	1	30				
Trichlorofluoromethane	108	108	47-163	1	30				
1,2,3-Trichloropropane	91	87	45-154	5	30				
1,2,4-Trimethylbenzene	87	89	37-149	2	30				
1,3,5-Trimethylbenzene	89	91	38-150	1	30				
Vinyl Chloride	96	99	50-154	2	30				
m+p-Xylene	96	98	44-137	1	30				
o-Xylene	93	96	42-137	2	30				
Batch number: E111601AA	Sample number(s): 6310784-6310785 UNSPK: P308916								
1,4-Dioxane	101	118	73-138	16	30				
Batch number: E111621AA	Sample number(s): 6310767-6310777,6310779-6310782 UNSPK: 6310775								
1,4-Dioxane	96	100	70-130	8	30				
Batch number: 11161SLF026	Sample number(s): 6310767-6310777,6310779-6310781,6310783 UNSPK: 6310775								
N-Nitrosodimethylamine	69*	70	70-130	0	30				
Batch number: 11162SLB026	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acenaphthene	77	78	75-115	0	30				
Acenaphthylene	79*	80*	81-110	0	30				
Aniline	52	49	35-95	7	30				
Anthracene	77	77	75-115	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	78	78	65-122	1	30				
Benzo(a)pyrene	71	70	57-126	2	30				
Benzo(b)fluoranthene	68	67	59-125	2	30				
Benzo(g,h,i)perylene	76	80	59-127	4	30				
Benzo(k)fluoranthene	68	67	56-132	2	30				
Benzoic acid	66	67	10-173	1	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	67	66*	67-115	3	30				
4-Bromophenyl-phenylether	75	74	67-129	2	30				
Butylbenzylphthalate	85	80	73-134	7	30				
Di-n-butylphthalate	76	72	67-123	6	30				
Carbazole	74	78	64-120	4	30				
4-Chloro-3-methylphenol	72*	71*	76-110	2	30				
4-Chloroaniline	50	51	23-95	0	30				
bis(2-Chloroethoxy)methane	75	74*	75-104	2	30				
bis(2-Chloroethyl)ether	69	69	60-116	0	30				
bis(2-Chloroisopropyl)ether	70	69	55-142	2	30				
2-Chloronaphthalene	62	63	50-141	2	30				
2-Chlorophenol	71*	71*	73-121	0	30				
4-Chlorophenyl-phenylether	75*	76*	80-109	1	30				
Chrysene	81	81	62-128	0	30				
Dibenz(a,h)anthracene	80	80	65-125	1	30				
Dibenzofuran	77	77	71-112	0	30				
1,2-Dichlorobenzene	68	71	66-108	4	30				
1,3-Dichlorobenzene	67	69	63-109	2	30				
1,4-Dichlorobenzene	68*	68*	70-100	0	30				
3,3'-Dichlorobenzidine	59	58	16-119	3	30				
2,4-Dichlorophenol	74*	72*	78-117	4	30				
Diethylphthalate	75	71	66-118	6	30				
2,4-Dimethylphenol	77*	77*	78-110	1	30				
3,5-Dimethylphenol	100	99	70-130	2	30				
Dimethylphthalate	75	75	64-118	0	30				
4,6-Dinitro-2-methylphenol	59	50	24-116	18	30				
2,4-Dinitrophenol	48	35	20-143	31*	30				
2,4-Dinitrotoluene	71*	77	73-113	8	30				
2,6-Dinitrotoluene	74	78	69-123	4	30				
1,2-Diphenylhydrazine	84	82	71-129	3	30				
bis(2-Ethylhexyl)phthalate	89	80	63-122	10	30				
Fluoranthene	73	77	73-112	5	30				
Fluorene	76*	77	77-111	1	30				
Hexachlorobenzene	77	76*	77-114	2	30				
Hexachlorobutadiene	77	77	62-120	1	30				
Hexachlorocyclopentadiene	72	70	10-153	3	30				
Hexachloroethane	69	70	57-109	1	30				
Indeno(1,2,3-cd)pyrene	78	80	61-126	2	30				
Isophorone	74	75	73-102	0	30				
1-Methylnaphthalene	75	73	73-112	3	30				
2-Methylnaphthalene	68*	68*	76-114	1	30				
2-Methylphenol	68*	68*	75-111	2	30				
4-Methylphenol	65*	63*	71-111	4	30				
Naphthalene	76	76	72-116	1	30				
2-Nitroaniline	77	78	67-125	1	30				
3-Nitroaniline	68	70	59-122	2	30				
4-Nitroaniline	54	54	52-112	0	30				
Nitrobenzene	78	79	72-106	0	30				
2-Nitrophenol	76	75	74-115	2	30				
4-Nitrophenol	65	73	54-113	11	30				
N-Nitroso-di-n-propylamine	67	67	60-116	1	30				
N-Nitrosodimethylamine	69	70	47-116	0	30				
N-Nitrosodiphenylamine	80*	79*	86-145	1	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	72	68	56-126	6	30				
Pentachlorophenol	66	71	28-127	5	30				
Phenanthrene	76	76	65-125	0	30				
Phenol	68	70	58-126	3	30				
Pyrene	79	78	74-126	1	30				
1,2,4-Trichlorobenzene	76	77	72-115	1	30				
2,4,5-Trichlorophenol	76*	76*	78-109	0	30				
2,4,6-Trichlorophenol	78	78	77-115	0	30				
Batch number: 11167SLJ026	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acenaphthene	86	87	63-105	1	30				
Acenaphthylene	81	83	67-114	3	30				
Anthracene	93	91	60-122	2	30				
Benzo(a)anthracene	103	98	59-128	4	30				
Benzo(a)pyrene	103	103	45-138	0	30				
Benzo(b)fluoranthene	113	108	43-155	4	30				
Benzo(g,h,i)perylene	97	95	33-141	2	30				
Benzo(k)fluoranthene	103	103	42-144	0	30				
Butylbenzylphthalate	112	106	57-173	5	30				
Di-n-butylphthalate	119	113	65-148	5	30				
Chrysene	100	97	48-134	3	30				
Dibenz(a,h)anthracene	105	104	22-133	1	30				
Diethylphthalate	97	96	70-136	0	30				
Dimethylphthalate	90	91	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	103	106	39-167	2	30				
Fluoranthene	106	101	26-166	5	30				
Fluorene	88	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	104	102	21-143	2	30				
1-Methylnaphthalene	97	98	72-123	2	30				
2-Methylnaphthalene	88	89	64-103	2	30				
Naphthalene	87	89	61-102	3	30				
N-Nitrosodimethylamine	73	77	48-113	5	30				
Di-n-octylphthalate	124	124	40-192	0	30				
Phenanthrene	91	88	12-165	2	30				
Pyrene	86	83	15-153	3	30				
Batch number: 11179SLC026	Sample number(s): 6310782 UNSPK: P323477								
N-Nitrosodimethylamine	83	84	70-130	1	30				
Batch number: 11164A34A	Sample number(s): 6310767-6310777,6310779-6310781 UNSPK: 6310775								
9a TPH by EPA 8015B Gas C5-C12	54	58	39-118	6	30				
Batch number: 111640008A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
4-Amino-2,6-Dinitrotoluene	97	97	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	97	97	80-137	1	50				
1,3-Dinitrobenzene	100	104	38-166	4	50				
2,4-Dinitrotoluene	94	96	80-131	3	50				
2,6-Dinitrotoluene	97	98	80-127	2	50				
HMX	83	81	63-128	2	50				
Nitrobenzene	97	100	80-125	3	50				
Nitroglycerin	82	83	80-120	1	50				
2-Nitrotoluene	93	97	80-122	4	50				
3-Nitrotoluene	99	103	72-119	4	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	93	96	80-125	4	50				
PETN	104	103	80-121	2	50				
RDX	79	82	75-129	3	50				
Tetryl	66	57	55-174	14	50				
1,3,5-Trinitrobenzene	83	76*	82-126	8	50				
2,4,6-Trinitrotoluene	96	97	82-130	0	50				
Batch number: 111660001A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
25a Formaldehyde 8315A	91	92	80-120	0	50				
Batch number: 111660019A	Sample number(s): 6310768,6310771 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111620007A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
PCB-1016	96	105	29-146	9	50				
PCB-1260	102	113	39-149	9	50				
Batch number: 111670011A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
EFH (C12-C14)	89	107	49-123	17	20				
EFH (C15-C20)	125*	150*	49-123	18	20				
EFH (C21-C30)	113	158*	49-123	20	20				
EFH (C30 - C40)	71	240*	49-123	51*	20				
EFH (C8-C11)	64	83	49-123	9	20				
Batch number: 111600024A	Sample number(s): 6310767-6310774 UNSPK: P309733								
Ethanol	81	77	48-130	5	20				
Isopropanol	79	75	12-149	5	20				
Methanol	79	76	43-138	5	20				
Batch number: 111600025A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Diethylene glycol	54*	44*	59-109	20	20				
Ethylene glycol	70	56*	63-107	22*	20				
Propylene glycol	75	59*	63-107	23*	20				
Batch number: 111610018A	Sample number(s): 6310775-6310777,6310779-6310783 UNSPK: 6310775								
Ethanol	70	70	48-130	0	20				
Isopropanol	70	70	12-149	1	20				
Methanol	73	74	43-138	2	20				
Batch number: 111660005A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
m-Terphenyl	74*	82	75-125	10	20				
o-Terphenyl	85	93	75-125	9	20				
p-Terphenyl	85	92	75-125	8	20				
Batch number: 111671026001A	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Antimony	64*	62*	75-125	2	20	0.243	0.119 J	69* (1)	20
Arsenic	243 (2)	198 (2)	75-125	6	20	8.44	6.72	23*	20
Beryllium	126*	144*	75-125	8	20	0.773	0.647	18	20
Cadmium	151*	141*	75-125	6	20	0.0692 J	0.0707 J	2 (1)	20
Chromium	160*	145*	75-125	4	20	16.7	14.3	15	20
Cobalt	147*	138*	75-125	5	20	5.88	4.79	20	20
Copper	160*	153*	75-125	2	20	9.02	7.92	13	20
Lead	205*	179*	75-125	6	20	6.78	5.48	21*	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	183*	173*	75-125	3	20	14.1	11.6	19	20
Silver	150*	137*	75-125	8	20	0.0617 J	0.0628 J	2 (1)	20
Thallium	162*	155*	75-125	2	20	0.295	0.255	15 (1)	20
Vanadium	204*	189*	75-125	2	20	35.5	30.2	16	20
Zinc	260 (2)	240 (2)	75-125	2	20	55.5	47.7	15	20
Batch number: 111671026001B	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Selenium	136*	123	75-125	9	20	0.112 J	0.0963 J	15 (1)	20
Batch number: 111671026001C	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Molybdenum	153*	141*	75-125	7	20	1.04	0.909	14	20
Batch number: 111671026001D	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Barium	433 (2)	423 (2)	75-125	0	20	106	87.9	18	20
Batch number: 111675708002	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Aluminum	2284 (2)	2490 (2)	75-125	1	20	21,700	21,700	0	20
Boron	98	100	84-115	1	20	3.97 J	4.21 J	6 (1)	20
Calcium	142 (2)	165 (2)	75-125	3	20	2,150	2,150	0	20
Iron	1221 (2)	1275 (2)	75-125	0	20	20,600	24,000	15	20
Lithium	102	102	82-114	0	20	27.8	27.7	0	20
Magnesium	257 (2)	256 (2)	75-125	0	20	3,860	4,110	6	20
Manganese	32 (2)	12 (2)	75-125	4	20	248	670	92*	20
Phosphorus	103	99	75-125	1	20	211	241	13	20
Potassium	118	124	75-125	1	20	1,910	2,220	15	20
Sodium	98	99	75-125	0	20	108	112	3 (1)	20
Strontium	100	99	75-115	1	20	14.9	14.7	2	20
Tin	88	88	80-110	1	20	2.52 J	2.48 J	2 (1)	20
Titanium	207 (2)	303 (2)	75-125	7	20	1,070	1,140	6	20
Zirconium	99	99	75-125	1	20	3.08 J	5.05	49* (1)	20
Batch number: 111675711002	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Mercury	83	81	65-135	1	20	0.0215 J	0.0069 U	200* (1)	20
Batch number: 11164243201A	Sample number(s): 6310767-6310776,6310778-6310783 UNSPK: 6310775 BKG: 6310775								
3a Cr VI by EPA 7199	91		75-125			0.45 J	0.42 J	8 (1)	20
Batch number: 11166102201B	Sample number(s): 6310767-6310776,6310778 UNSPK: 6310775 BKG: 6310775								
17a Cyanide by 9012B	97		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11168102201A	Sample number(s): 6310779-6310783 UNSPK: 6310779 BKG: 6310779								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11169621202A	Sample number(s): 6310767-6310776,6310778-6310779 UNSPK: 6310775 BKG: 6310775								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11169621202B	Sample number(s): 6310780-6310783 UNSPK: 6310780 BKG: 6310780								
7a Perchlorate EPA 314.0	82		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11171621203A	Sample number(s): 6310767-6310776,6310778-6310779 UNSPK: 6310775 BKG: 6310775								
11a Anions by 300.0 - Fluoride	29*		80-120			2.2	2.4	6 (1)	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Nitrate	93		80-120			1.4	J	1.4	J	0 (1)	20
Batch number: 11171621203B	Sample number(s): 6310780-6310783 UNSPK: 6310780 BKG: 6310780										
11a Anions by 300.0 - Fluoride	47*		80-120			4.4		3.8		15 (1)	20
11a Anions by 300.0 - Nitrate	74*		80-120			3.4		3.3		1 (1)	20
Batch number: 11166039401A	Sample number(s): 6310767-6310775,6310778-6310779 BKG: 6310775										
18a pH by 9045C						6.90		6.84		1	3
Batch number: 11166039401B	Sample number(s): 6310780-6310783 BKG: P312174										
18a pH by 9045C						8.69		8.74		1	3
Batch number: 11174162403A	Sample number(s): 6310767-6310778 BKG: 6310775										
28a Moisture Content by 160.3						11.4		11.6		2	20
Moisture Content by 160.3						11.4		11.6		2	20
Moisture Content by 160.3						11.4		11.6		2	20
Batch number: 11174162403B	Sample number(s): 6310779-6310783 BKG: P313369										
Moisture Content by 160.3						15.3		15.0		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111652AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6310767	105	111	98	96
6310768	101	99	100	94
6310769	103	103	101	92
6310770	103	101	100	95
6310771	102	101	101	94
6310772	103	104	100	95
6310773	106	109	99	96
6310774	103	101	100	94
6310775	105	100	100	93
6310776	104	102	102	102
6310777	103	100	103	102
6310779	104	103	100	96
6310780	103	100	101	93
6310781	106	105	98	95
6310782	105	101	100	94
6310783	105	103	101	93
Blank	101	99	101	94
LCS	104	108	101	103
MS	104	102	102	102
MSD	103	100	103	102

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111601AA

	Toluene-d8
6310784	97
6310785	97
Blank	100
LCS	100
MS	102
MSD	97

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111621AA

	Toluene-d8
6310767	95
6310768	95
6310769	95
6310770	95
6310771	95
6310772	95
6310773	94
6310774	95
6310775	94
6310776	94
6310777	94
6310779	93
6310780	93
6310781	92
6310782	93
Blank	95
LCS	97
LCSD	96
MS	94
MSD	94

Limits: 70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6310783	99
Blank	97
LCS	97
LCSD	97

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

6310784	104	102	100	96
6310785	105	103	99	97
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11160WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310785	138*	96	103
Blank	115	109	111
LCS	115	114	101
LCSD	105	88	105
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11160WAL026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310785	53	34	88	84	83	81
Blank	58	46	88	82	81	76
LCS	67	53	97	96	95	87
LCSD	66	53	89	84	84	85
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11161SLF026

	N-Nitrosodimethylamine-d6
6310767	118
6310768	82
6310769	88
6310770	85
6310771	1071*
6310772	1044*
6310773	132
6310774	133
6310775	83
6310776	119
6310777	119
6310779	151*
6310780	87
6310781	142
6310783	133
Blank	92
LCS	99
MS	119
MSD	119
Limits:	50-150

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11162SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310767	77	80	81	85	87	81
6310768	83	86	86	89	95	84
6310769	76	78	73	80	82	77
6310770	81	84	85	89	91	88
6310771	83	88	81	88	91	83
6310772	87	89	84	90	94	92
6310773	80	82	80	85	88	83
6310774	82	86	80	86	86	83
6310775	82	84	88	85	90	85
6310776	85	87	92	94	98	90
6310777	86	90	90	96	98	83
6310779	85	88	91	91	95	81
6310780	72	73	72	77	78	75
6310781	85	87	89	89	95	92
6310782	84	86	87	92	95	88
6310783	85	90	88	91	95	85
Blank	84	87	88	88	94	89
LCS	87	88	88	89	94	88
MS	85	87	92	94	98	90
MSD	86	90	90	96	98	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310767	105	86	100
6310768	102	86	103
6310769	99	81	96
6310770	104	85	97
6310771	100	83	93
6310772	101	82	92
6310773	100	82	96
6310774	101	83	95
6310775	103	85	98
6310776	102	83	98
6310777	104	86	94
6310779	108	87	102
6310780	109	87	101
6310781	104	86	104
6310782	111	91	107
6310783	108	87	105
Blank	115	101	118
LCS	105	91	109
MS	102	83	98
MSD	104	86	94
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11179SLC026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

	d6
6310782	88
Blank	88
LCS	95
MS	85
MSD	89
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11164A34A

	Trifluorotoluene-F
6310767	80
6310768	73
6310769	74
6310770	69
6310771	72
6310772	84
6310773	74
6310774	72
6310775	73
6310776	71
6310777	70
6310779	68
6310780	69
6310781	73
Blank	82
LCS	88
MS	71
MSD	70
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F
6310782	75
6310783	83
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11166B20A

	Trifluorotoluene-F
6310784	86
Blank	85
LCS	119
LCSD	122
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111620007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6310767	96	97
6310768	95	115
6310769	83	90
6310770	101	112
6310771	91	92
6310772	104	109
6310773	89	105
6310774	95	104
6310775	101	104
6310776	92	97
6310777	104	103
6310779	85	89
6310780	98	94
6310781	94	96
6310782	102	102
6310783	86	111
Blank	113	122*
LCS	106	126*
LCSD	110	139*
MS	92	97
MSD	104	103
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111640008A

	2-Nitro-m-xylene
6310767	119
6310768	107
6310769	128
6310770	117
6310771	119
6310772	112
6310773	123
6310774	125
6310775	116
6310776	106
6310777	111
6310779	105
6310780	113
6310781	121
6310782	115
6310783	118
Blank	114
LCS	122
LCSD	107
MS	106
MSD	111
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Batch number: 111650015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6310785	100	97
Blank	109	83
LCS	110	104
LCSD	103	94
Limits:	30-150	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660001A

	Butyraldehyde
6310767	107
6310768	104
6310769	104
6310770	107
6310771	109
6310772	107
6310773	113
6310774	105
6310775	100
6310776	98
6310777	98
6310779	92
6310780	103
6310781	100
6310782	107
6310783	102
Blank	110
LCS	103
MS	98
MSD	98
Limits:	64-126

Analysis Name: 19a Alcohols by 8015B
Batch number: 111600024A

	Acetone
6310767	75
6310768	78
6310769	77
6310770	76
6310771	76
6310772	86
6310773	79
6310774	74
Blank	88
LCS	92
MS	76
MSD	75
Limits:	42-138

Analysis Name: 21a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Batch number: 111600025A

	Tetramethylene glycol
6310767	89
6310768	90
6310769	96
6310770	97
6310771	96
6310772	98
6310773	94
6310774	98
6310775	96
6310776	102
6310777	101
6310779	96
6310780	86
6310781	93
6310782	99
6310783	93
Blank	110
LCS	117
MS	102
MSD	101
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111610018A

	Acetone
6310775	69
6310776	74
6310777	71
6310779	70
6310780	68
6310781	67
6310782	71
6310783	74
Blank	90
LCS	91
MS	74
MSD	71
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111660005A

	n-Triacontane-d62
6310767	83
6310768	88
6310769	93
6310770	91
6310771	151*
6310772	103
6310773	92
6310774	115

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

6310775	101
6310776	90
6310777	86
6310779	88
6310780	90
6310781	97
6310782	96
6310783	95
Blank	92
LCS	94
MS	90
MSD	86
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111670011A

	Chlorobenzene	Orthoterphenyl
6310767	64	81
6310768	69	95
6310769	63	79
6310770	75	98
6310771	64	82
6310772	66	102
6310773	66	85
6310774	52	79
6310775	69	92
6310776	65	93
6310777	69	96
6310779	59	93
6310780	54	87
6310781	59	93
6310782	67	96
6310783	60	91
Blank	78	97
LCS	110	102
MS	65	93
MSD	69	96
Limits:	37-125	47-145

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1250632 Sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/847471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-023-SA5DN-SB-4.5	06.08.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-4.0-5.0	06.08.11	1115	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SB-20.5	06.08.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-20.0-21.0	06.08.11	1130	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-4.5	06.08.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-4.0-5.0	06.08.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-23.5	06.08.11	0935	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-23.0-24.0	06.08.11	0940	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-4.5	06.08.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-4.0-5.0	06.08.11	1410	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-12.0	06.08.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-11.5-12.5	06.08.11	1420	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SB-4.5	06.08.11	1520	SOIL	NONE	5-Encores										X	X	X										
SL-051-SA5DN-SB-4.0-5.0	06.08.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SB-14.5	06.08.11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-051-SA5DN-SB-14.0-15.0	06.08.11	1535	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/08/2011 / 1700	6/9/11 905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Gp# 1250632 sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Cortez

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-076-SA8N-SB-4.5MS	06.08.11	1000	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-076-SA8N-SB-4.0-5.0MS	06.08.11	1005	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD Hand Auger Sample-only 6 jars
SL-076-SA8N-SB-8.0	06.08.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA8N-SB-7.5-8.5	06.08.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-106-SA8N-SB-3.0	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-106-SA8N-SB-2.5-3.5	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-4.5	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-4.0-5.0	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.5	06.08.11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-9.0-10.0	06.08.11	1555	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
DUP10-SA8N-QC-060811	06.08.11	1010	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA8N-QC-060811	06.08.11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060811	06.08.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 06/08/2011 / 1700 — Received for Laboratory by: (*Signature*) Mary Hart 6/9/11 905 — Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8754 3339 9202,9213,9224, 9235

acct# 13013 Gp# 1250632 Sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	5-1 L Ambers				X	X	X								
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	1-500mL plastic			X				X	X	X					
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HNO3	1-500 poly		X												
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HCL	6-40mL Vials											X	X		
Relinquished by: (*Signature*)	Date/Time 06/08/2011 / 1700		Received for Laboratory by: (*Signature*) Gary Hodel 6/9/11 905																Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3339 9202,9213,9224																

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/09/2011
Group Number: 1250635
SDG: DX100
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA5DN-SB-4.0-5.0 Soil	6310788
SL-023-SA5DN-SB-20.0-21.0 Soil	6310789
SL-025-SA5DN-SB-4.0-5.0 Soil	6310790
SL-025-SA5DN-SB-23.0-24.0 Soil	6310791
SL-028-SA5DN-SB-4.0-5.0 Soil	6310792
SL-028-SA5DN-SB-11.5-12.5 Soil	6310793
SL-051-SA5DN-SB-4.0-5.0 Soil	6310794
SL-051-SA5DN-SB-14.0-15.0 Soil	6310795
SL-076-SA8N-SB-4.0-5.0 Soil	6310796
SL-076-SA8N-SB-4.0-5.0MS Soil	6310797
SL-076-SA8N-SB-4.0-5.0MSD Soil	6310798
SL-076-SA8N-SB-7.5-8.5 Soil	6310799
SL-106-SA8N-SB-2.5-3.5 Soil	6310800
SL-109-SA8N-SB-4.0-5.0 Soil	6310801
SL-109-SA8N-SB-9.0-10.0 Soil	6310802
DUP10-SA8N-QC-060811 Soil	6310803
EB16-SA8N-SB-060811 Water	6310804

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0121	U	0.0121	1.10	1
11031	12378-PeCDD	40321-76-4	0.0528	JB	0.0145	5.48	1
11031	123478-HxCDD	39227-28-6	0.0242	JBQ	0.0193	5.48	1
11031	123678-HxCDD	57653-85-7	0.127	JBQ	0.0196	5.48	1
11031	123789-HxCDD	19408-74-3	0.176	JB	0.0183	5.48	1
11031	1234678-HpCDD	35822-46-9	2.02	JB	0.0333	5.48	1
11031	OCDD	3268-87-9	18.2	B	0.0276	11.0	1
11031	2378-TCDF	51207-31-9	0.0202	U	0.0202	1.10	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0107	5.48	1
11031	23478-PeCDF	57117-31-4	0.0753	JB	0.0109	5.48	1
11031	123478-HxCDF	70648-26-9	0.0947	JB	0.0127	5.48	1
11031	123678-HxCDF	57117-44-9	0.0294	JB	0.0108	5.48	1
11031	123789-HxCDF	72918-21-9	0.228	JB	0.0146	5.48	1
11031	234678-HxCDF	60851-34-5	0.0385	JBQ	0.0118	5.48	1
11031	1234678-HpCDF	67562-39-4	0.100	JB	0.00896	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0197	JB	0.0158	5.48	1
11031	OCDF	39001-02-0	0.328	JB	0.0329	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/24/2011 23:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.09	1
11031	12378-PeCDD	40321-76-4	0.0162	U	0.0162	5.44	1
11031	123478-HxCDD	39227-28-6	0.0154	U	0.0154	5.44	1
11031	123678-HxCDD	57653-85-7	0.0387	JB	0.0160	5.44	1
11031	123789-HxCDD	19408-74-3	0.0579	JBQ	0.0154	5.44	1
11031	1234678-HpCDD	35822-46-9	0.342	JB	0.0242	5.44	1
11031	OCDD	3268-87-9	0.693	JB	0.0291	10.9	1
11031	2378-TCDF	51207-31-9	0.0220	JQ	0.0152	1.09	1
11031	12378-PeCDF	57117-41-6	0.0136	JBQ	0.00758	5.44	1
11031	23478-PeCDF	57117-31-4	0.0368	JB	0.00758	5.44	1
11031	123478-HxCDF	70648-26-9	0.0225	JB	0.00879	5.44	1
11031	123678-HxCDF	57117-44-9	0.0163	JBQ	0.00747	5.44	1
11031	123789-HxCDF	72918-21-9	0.0394	JBQ	0.00934	5.44	1
11031	234678-HxCDF	60851-34-5	0.0350	JBQ	0.00758	5.44	1
11031	1234678-HpCDF	67562-39-4	0.0303	JBQ	0.00780	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0160	JBQ	0.0145	5.44	1
11031	OCDF	39001-02-0	0.100	JBQ	0.0342	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA5DN-SB-20.0-21.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 00:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0163 U	0.0163	1.11	1
11031	12378-PeCDD	40321-76-4	0.0194 JBQ	0.0171	5.57	1
11031	123478-HxCDD	39227-28-6	0.0192 JBQ	0.0173	5.57	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0174	5.57	1
11031	123789-HxCDD	19408-74-3	0.148 JB	0.0167	5.57	1
11031	1234678-HpCDD	35822-46-9	2.07 JB	0.0354	5.57	1
11031	OCDD	3268-87-9	19.9 B	0.0337	11.1	1
11031	2378-TCDF	51207-31-9	0.0172 U	0.0172	1.11	1
11031	12378-PeCDF	57117-41-6	0.0372 JBQ	0.00836	5.57	1
11031	23478-PeCDF	57117-31-4	0.0361 JBQ	0.00825	5.57	1
11031	123478-HxCDF	70648-26-9	0.0104 U	0.0104	5.57	1
11031	123678-HxCDF	57117-44-9	0.0118 JBQ	0.00881	5.57	1
11031	123789-HxCDF	72918-21-9	0.199 JB	0.0114	5.57	1
11031	234678-HxCDF	60851-34-5	0.0103 JBQ	0.00983	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0667 JB	0.00881	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0171 JB	0.0153	5.57	1
11031	OCDF	39001-02-0	0.176 JB	0.0359	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 01:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	JB	0.0153	1.10	1
11031	12378-PeCDD	40321-76-4	0.0182	JBQ	0.0151	5.52	1
11031	123478-HxCDD	39227-28-6	0.0109	U	0.0109	5.52	1
11031	123678-HxCDD	57653-85-7	0.0294	JBQ	0.0115	5.52	1
11031	123789-HxCDD	19408-74-3	0.0351	JBQ	0.0110	5.52	1
11031	1234678-HpCDD	35822-46-9	0.339	JB	0.0228	5.52	1
11031	OCDD	3268-87-9	0.807	JB	0.0293	11.0	1
11031	2378-TCDF	51207-31-9	0.0128	U	0.0128	1.10	1
11031	12378-PeCDF	57117-41-6	0.0131	JBQ	0.00677	5.52	1
11031	23478-PeCDF	57117-31-4	0.0470	JBQ	0.00677	5.52	1
11031	123478-HxCDF	70648-26-9	0.0133	JBQ	0.00666	5.52	1
11031	123678-HxCDF	57117-44-9	0.00816	JBQ	0.00577	5.52	1
11031	123789-HxCDF	72918-21-9	0.0210	JB	0.00655	5.52	1
11031	234678-HxCDF	60851-34-5	0.00566	U	0.00566	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0238	JBQ	0.00644	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0227	JBQ	0.0101	5.52	1
11031	OCDF	39001-02-0	0.0616	JB	0.0311	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 02:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.16	1
11031	12378-PeCDD	40321-76-4	0.0653 JBQ	0.0230	5.81	1
11031	123478-HxCDD	39227-28-6	0.0711 JBQ	0.0354	5.81	1
11031	123678-HxCDD	57653-85-7	0.212 JB	0.0370	5.81	1
11031	123789-HxCDD	19408-74-3	0.284 JB	0.0345	5.81	1
11031	1234678-HpCDD	35822-46-9	2.80 JB	0.0678	5.81	1
11031	OCDD	3268-87-9	30.8 B	0.0461	11.6	1
11031	2378-TCDF	51207-31-9	0.0418 J	0.0260	1.16	1
11031	12378-PeCDF	57117-41-6	0.148 JBQ	0.0151	5.81	1
11031	23478-PeCDF	57117-31-4	0.156 JB	0.0160	5.81	1
11031	123478-HxCDF	70648-26-9	0.0342 JBQ	0.0274	5.81	1
11031	123678-HxCDF	57117-44-9	0.0597 JBQ	0.0246	5.81	1
11031	123789-HxCDF	72918-21-9	0.327 JB	0.0327	5.81	1
11031	234678-HxCDF	60851-34-5	0.0600 JBQ	0.0265	5.81	1
11031	1234678-HpCDF	67562-39-4	0.390 JB	0.0284	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0992 JBQ	0.0484	5.81	1
11031	OCDF	39001-02-0	1.11 JB	0.0629	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 06:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133	U	0.0133	1.07	1
11031	12378-PeCDD	40321-76-4	0.0194	U	0.0194	5.37	1
11031	123478-HxCDD	39227-28-6	0.0541	JB	0.0344	5.37	1
11031	123678-HxCDD	57653-85-7	0.153	JB	0.0361	5.37	1
11031	123789-HxCDD	19408-74-3	0.187	JB	0.0346	5.37	1
11031	1234678-HpCDD	35822-46-9	4.65	JB	0.0615	5.37	1
11031	OCDD	3268-87-9	24.0	B	0.0462	10.7	1
11031	2378-TCDF	51207-31-9	0.120	J	0.0690	1.07	1
11031	12378-PeCDF	57117-41-6	0.140	JBQ	0.0181	5.37	1
11031	23478-PeCDF	57117-31-4	1.03	JB	0.0180	5.37	1
11031	123478-HxCDF	70648-26-9	0.418	JB	0.0302	5.37	1
11031	123678-HxCDF	57117-44-9	0.117	JB	0.0271	5.37	1
11031	123789-HxCDF	72918-21-9	0.211	JBQ	0.0268	5.37	1
11031	234678-HxCDF	60851-34-5	0.129	JB	0.0247	5.37	1
11031	1234678-HpCDF	67562-39-4	0.453	JB	0.0286	5.37	1
11031	1234789-HpCDF	55673-89-7	0.230	JB	0.0376	5.37	1
11031	OCDF	39001-02-0	1.34	JB	0.0522	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 07:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220 JB	0.0149	1.13	1
11031	12378-PeCDD	40321-76-4	0.0777 JB	0.0163	5.65	1
11031	123478-HxCDD	39227-28-6	0.0455 JBQ	0.0221	5.65	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0221	5.65	1
11031	123789-HxCDD	19408-74-3	0.130 JB	0.0211	5.65	1
11031	1234678-HpCDD	35822-46-9	0.701 JBQ	0.0507	5.65	1
11031	OCDD	3268-87-9	4.11 JB	0.0350	11.3	1
11031	2378-TCDF	51207-31-9	0.0204 J	0.0146	1.13	1
11031	12378-PeCDF	57117-41-6	0.0958 JB	0.00839	5.65	1
11031	23478-PeCDF	57117-31-4	0.0912 JBQ	0.00873	5.65	1
11031	123478-HxCDF	70648-26-9	0.0508 JBQ	0.0145	5.65	1
11031	123678-HxCDF	57117-44-9	0.0517 JB	0.0126	5.65	1
11031	123789-HxCDF	72918-21-9	0.173 JBQ	0.0176	5.65	1
11031	234678-HxCDF	60851-34-5	0.0141 U	0.0141	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0664 JBQ	0.0128	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0267 JBQ	0.0221	5.65	1
11031	OCDF	39001-02-0	0.105 JB	0.0541	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 08:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349 JBQ	0.0151	1.10	1
11031	12378-PeCDD	40321-76-4	0.0837 JB	0.0162	5.48	1
11031	123478-HxCDD	39227-28-6	0.0345 JBQ	0.0184	5.48	1
11031	123678-HxCDD	57653-85-7	0.0671 JB	0.0189	5.48	1
11031	123789-HxCDD	19408-74-3	0.0768 JB	0.0182	5.48	1
11031	1234678-HpCDD	35822-46-9	0.380 JB	0.0320	5.48	1
11031	OCDD	3268-87-9	0.937 JB	0.0439	11.0	1
11031	2378-TCDF	51207-31-9	0.0307 JQ	0.0137	1.10	1
11031	12378-PeCDF	57117-41-6	0.105 JB	0.00822	5.48	1
11031	23478-PeCDF	57117-31-4	0.103 JB	0.00845	5.48	1
11031	123478-HxCDF	70648-26-9	0.0609 JBQ	0.0131	5.48	1
11031	123678-HxCDF	57117-44-9	0.0670 JB	0.0110	5.48	1
11031	123789-HxCDF	72918-21-9	0.0562 JBQ	0.0148	5.48	1
11031	234678-HxCDF	60851-34-5	0.0433 JB	0.0124	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0430 JBQ	0.00913	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0474 JB	0.0164	5.48	1
11031	OCDF	39001-02-0	0.133 JB	0.0424	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5DN-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 09:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0291 JBQ	0.0140	1.11	1
11031	12378-PeCDD	40321-76-4	0.0871 JBQ	0.0191	5.54	1
11031	123478-HxCDD	39227-28-6	0.0482 JBQ	0.0195	5.54	1
11031	123678-HxCDD	57653-85-7	0.106 JB	0.0194	5.54	1
11031	123789-HxCDD	19408-74-3	0.129 JB	0.0186	5.54	1
11031	1234678-HpCDD	35822-46-9	1.44 JB	0.0386	5.54	1
11031	OCDD	3268-87-9	12.7 B	0.0310	11.1	1
11031	2378-TCDF	51207-31-9	0.118 J	0.0499	1.11	1
11031	12378-PeCDF	57117-41-6	0.167 JBQ	0.0218	5.54	1
11031	23478-PeCDF	57117-31-4	0.369 JB	0.0212	5.54	1
11031	123478-HxCDF	70648-26-9	0.593 JB	0.0272	5.54	1
11031	123678-HxCDF	57117-44-9	0.0805 JBQ	0.0238	5.54	1
11031	123789-HxCDF	72918-21-9	0.104 JBQ	0.0210	5.54	1
11031	234678-HxCDF	60851-34-5	0.0621 JBQ	0.0176	5.54	1
11031	1234678-HpCDF	67562-39-4	0.180 JBQ	0.0141	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0419 JBQ	0.0172	5.54	1
11031	OCDF	39001-02-0	0.264 JBQ	0.0414	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 10:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.0	B	0.0236	1.13	1
11031	12378-PeCDD	40321-76-4	101	B	0.0383	5.63	1
11031	123478-HxCDD	39227-28-6	103	B	0.0426	5.63	1
11031	123678-HxCDD	57653-85-7	101	B	0.0458	5.63	1
11031	123789-HxCDD	19408-74-3	99.7	B	0.0429	5.63	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0651	5.63	1
11031	OCDD	3268-87-9	217	B	0.0494	11.3	1
11031	2378-TCDF	51207-31-9	21.0		0.0999	1.13	1
11031	12378-PeCDF	57117-41-6	101	B	0.0480	5.63	1
11031	23478-PeCDF	57117-31-4	102	B	0.0489	5.63	1
11031	123478-HxCDF	70648-26-9	106	B	0.0630	5.63	1
11031	123678-HxCDF	57117-44-9	103	B	0.0554	5.63	1
11031	123789-HxCDF	72918-21-9	103	B	0.0684	5.63	1
11031	234678-HxCDF	60851-34-5	104	B	0.0605	5.63	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0360	5.63	1
11031	1234789-HpCDF	55673-89-7	103	B	0.0637	5.63	1
11031	OCDF	39001-02-0	208	B	0.0728	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 10:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.6	B	0.0231	1.10	1
11031	12378-PeCDD	40321-76-4	99.1	B	0.0396	5.51	1
11031	123478-HxCDD	39227-28-6	98.1	B	0.0356	5.51	1
11031	123678-HxCDD	57653-85-7	101	B	0.0372	5.51	1
11031	123789-HxCDD	19408-74-3	98.9	B	0.0354	5.51	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0569	5.51	1
11031	OCDD	3268-87-9	213	B	0.0574	11.0	1
11031	2378-TCDF	51207-31-9	20.0		0.0818	1.10	1
11031	12378-PeCDF	57117-41-6	99.0	B	0.0444	5.51	1
11031	23478-PeCDF	57117-31-4	99.3	B	0.0466	5.51	1
11031	123478-HxCDF	70648-26-9	101	B	0.0646	5.51	1
11031	123678-HxCDF	57117-44-9	99.9	B	0.0559	5.51	1
11031	123789-HxCDF	72918-21-9	101	B	0.0783	5.51	1
11031	234678-HxCDF	60851-34-5	102	B	0.0625	5.51	1
11031	1234678-HpCDF	67562-39-4	99.6	B	0.0437	5.51	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0874	5.51	1
11031	OCDF	39001-02-0	204	B	0.0805	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 11:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0146 J	0.0139	1.13	1
11031	12378-PeCDD	40321-76-4	0.0397 JBQ	0.0147	5.64	1
11031	123478-HxCDD	39227-28-6	0.0183 U	0.0183	5.64	1
11031	123678-HxCDD	57653-85-7	0.0336 JB	0.0185	5.64	1
11031	123789-HxCDD	19408-74-3	0.0362 JBQ	0.0171	5.64	1
11031	1234678-HpCDD	35822-46-9	0.474 JB	0.0382	5.64	1
11031	OCDD	3268-87-9	1.64 JB	0.0409	11.3	1
11031	2378-TCDF	51207-31-9	0.0174 U	0.0174	1.13	1
11031	12378-PeCDF	57117-41-6	0.115 JBQ	0.00978	5.64	1
11031	23478-PeCDF	57117-31-4	0.0522 JBQ	0.00921	5.64	1
11031	123478-HxCDF	70648-26-9	0.0307 JBQ	0.00944	5.64	1
11031	123678-HxCDF	57117-44-9	0.0262 JBQ	0.00875	5.64	1
11031	123789-HxCDF	72918-21-9	0.0447 JB	0.0108	5.64	1
11031	234678-HxCDF	60851-34-5	0.0131 JBQ	0.00886	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0539 JB	0.0114	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0259 JB	0.0174	5.64	1
11031	OCDF	39001-02-0	0.132 JBQ	0.0394	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 19:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0172 JQ	0.0144	1.15	1
11031	12378-PeCDD	40321-76-4	0.0137 U	0.0137	5.74	1
11031	123478-HxCDD	39227-28-6	0.0200 JBQ	0.0164	5.74	1
11031	123678-HxCDD	57653-85-7	0.0171 U	0.0171	5.74	1
11031	123789-HxCDD	19408-74-3	0.0492 JB	0.0159	5.74	1
11031	1234678-HpCDD	35822-46-9	0.555 JB	0.0391	5.74	1
11031	OCDD	3268-87-9	1.32 JBQ	0.0367	11.5	1
11031	2378-TCDF	51207-31-9	0.0137 U	0.0137	1.15	1
11031	12378-PeCDF	57117-41-6	0.0136 JBQ	0.00774	5.74	1
11031	23478-PeCDF	57117-31-4	0.0495 JBQ	0.00762	5.74	1
11031	123478-HxCDF	70648-26-9	0.0196 JBQ	0.00958	5.74	1
11031	123678-HxCDF	57117-44-9	0.0222 JB	0.00878	5.74	1
11031	123789-HxCDF	72918-21-9	0.0140 JBQ	0.00982	5.74	1
11031	234678-HxCDF	60851-34-5	0.0193 JBQ	0.00935	5.74	1
11031	1234678-HpCDF	67562-39-4	0.0405 JB	0.0106	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0154 U	0.0154	5.74	1
11031	OCDF	39001-02-0	0.140 JB	0.0411	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA8N-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 20:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0148 U	0.0148	1.14	1
11031	12378-PeCDD	40321-76-4	0.0127 U	0.0127	5.71	1
11031	123478-HxCDD	39227-28-6	0.0193 JB	0.0114	5.71	1
11031	123678-HxCDD	57653-85-7	0.0263 JBQ	0.0119	5.71	1
11031	123789-HxCDD	19408-74-3	0.0412 JB	0.0114	5.71	1
11031	1234678-HpCDD	35822-46-9	0.346 JB	0.0227	5.71	1
11031	OCDD	3268-87-9	1.09 JB	0.0286	11.4	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.14	1
11031	12378-PeCDF	57117-41-6	0.0127 JB	0.00654	5.71	1
11031	23478-PeCDF	57117-31-4	0.0340 JB	0.00700	5.71	1
11031	123478-HxCDF	70648-26-9	0.0262 JBQ	0.00906	5.71	1
11031	123678-HxCDF	57117-44-9	0.0144 JBQ	0.00757	5.71	1
11031	123789-HxCDF	72918-21-9	0.0172 JB	0.00894	5.71	1
11031	234678-HxCDF	60851-34-5	0.00677 U	0.00677	5.71	1
11031	1234678-HpCDF	67562-39-4	0.0326 JBQ	0.00734	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0271 JBQ	0.0133	5.71	1
11031	OCDF	39001-02-0	0.0772 JB	0.0321	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 14:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.15	1
11031	12378-PeCDD	40321-76-4	0.0144 JBQ	0.0136	5.73	1
11031	123478-HxCDD	39227-28-6	0.0138 U	0.0138	5.73	1
11031	123678-HxCDD	57653-85-7	0.0225 JBQ	0.0140	5.73	1
11031	123789-HxCDD	19408-74-3	0.0326 JBQ	0.0134	5.73	1
11031	1234678-HpCDD	35822-46-9	0.467 JB	0.0282	5.73	1
11031	OCDD	3268-87-9	1.14 JB	0.0287	11.5	1
11031	2378-TCDF	51207-31-9	0.0123 JB	0.0116	1.15	1
11031	12378-PeCDF	57117-41-6	0.0141 JBQ	0.00636	5.73	1
11031	23478-PeCDF	57117-31-4	0.0430 JBQ	0.00601	5.73	1
11031	123478-HxCDF	70648-26-9	0.00717 U	0.00717	5.73	1
11031	123678-HxCDF	57117-44-9	0.00671 U	0.00671	5.73	1
11031	123789-HxCDF	72918-21-9	0.0169 JBQ	0.00821	5.73	1
11031	234678-HxCDF	60851-34-5	0.00726 JB	0.00705	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0327 JBQ	0.00867	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0233 JB	0.0129	5.73	1
11031	OCDF	39001-02-0	0.0856 JBQ	0.0353	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 21:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0158 U	0.0158	1.11	1
11031	12378-PeCDD	40321-76-4	0.0192 JB	0.0191	5.53	1
11031	123478-HxCDD	39227-28-6	0.0227 U	0.0227	5.53	1
11031	123678-HxCDD	57653-85-7	0.0801 JBQ	0.0235	5.53	1
11031	123789-HxCDD	19408-74-3	0.0803 JB	0.0218	5.53	1
11031	1234678-HpCDD	35822-46-9	1.70 JB	0.0407	5.53	1
11031	OCDD	3268-87-9	16.0 B	0.0381	11.1	1
11031	2378-TCDF	51207-31-9	0.514 JB	0.0783	1.11	1
11031	12378-PeCDF	57117-41-6	1.96 JB	0.0420	5.53	1
11031	23478-PeCDF	57117-31-4	0.0394 U	0.0394	5.53	1
11031	123478-HxCDF	70648-26-9	0.550 JBQ	0.0251	5.53	1
11031	123678-HxCDF	57117-44-9	0.156 JB	0.0231	5.53	1
11031	123789-HxCDF	72918-21-9	0.106 JB	0.0271	5.53	1
11031	234678-HxCDF	60851-34-5	0.0353 JBQ	0.0249	5.53	1
11031	1234678-HpCDF	67562-39-4	0.185 JB	0.0128	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0424 JBQ	0.0182	5.53	1
11031	OCDF	39001-02-0	0.338 JB	0.0347	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA8N-QC-060811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 22:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310804
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10015 SDG#: DX100-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.360	U	0.360	2.01	1
10915	12378-PeCDD	40321-76-4	0.532	JBQ	0.412	10.1	1
10915	123478-HxCDD	39227-28-6	0.315	JBQ	0.266	10.1	1
10915	123678-HxCDD	57653-85-7	0.289	U	0.289	10.1	1
10915	123789-HxCDD	19408-74-3	0.778	JBQ	0.279	10.1	1
10915	1234678-HpCDD	35822-46-9	6.00	JB	0.396	10.1	1
10915	OCDD	3268-87-9	12.4	JBQ	0.395	20.1	1
10915	2378-TCDF	51207-31-9	0.320	U	0.320	2.01	1
10915	12378-PeCDF	57117-41-6	0.362	JBQ	0.251	10.1	1
10915	23478-PeCDF	57117-31-4	0.947	JBQ	0.226	10.1	1
10915	123478-HxCDF	70648-26-9	0.368	JBQ	0.237	10.1	1
10915	123678-HxCDF	57117-44-9	0.232	U	0.232	10.1	1
10915	123789-HxCDF	72918-21-9	0.249	U	0.249	10.1	1
10915	234678-HxCDF	60851-34-5	0.436	JBQ	0.223	10.1	1
10915	1234678-HpCDF	67562-39-4	1.22	JB	0.163	10.1	1
10915	1234789-HpCDF	55673-89-7	0.343	JB	0.186	10.1	1
10915	OCDF	39001-02-0	1.17	JBQ	0.487	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	43	25 - 164
13C12-12378-PeCDD	37	25 - 181
13C12-123478-HxCDD	37	32 - 141
13C12-123678-HxCDD	38	28 - 130
13C12-123789-HxCDD	38	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	33	17 - 157
13C12-2378-TCDF	45	24 - 169
13C12-12378-PeCDF	37	24 - 185
13C12-23478-PeCDF	37	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	39	28 - 136
13C12-123789-HxCDF	41	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310804
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10015 SDG#: DX100-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161005	06/15/2011 05:30	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11161005	06/11/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162403A	Sample number(s): 6310788-6310798								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6310799-6310803								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161005	Sample number(s): 6310804								
2378-TCDD	0.359 J	0.210	2.00	pg/l	94		67-158		
12378-PeCDD	0.608 J	0.242	10.0	pg/l	97		70-142		
123478-HxCDD	0.701 J	0.192	10.0	pg/l	99		70-164		
123678-HxCDD	0.697 J	0.201	10.0	pg/l	100		76-134		
123789-HxCDD	1.10 J	0.200	10.0	pg/l	99		64-162		
1234678-HpCDD	5.46 J	0.278	10.0	pg/l	104		70-140		
OCDD	13.0 J	0.297	20.0	pg/l	106		78-144		
2378-TCDF	0.193 U	0.193	2.00	pg/l	95		75-158		
12378-PeCDF	0.737 J	0.145	10.0	pg/l	99		80-134		
23478-PeCDF	0.940 J	0.137	10.0	pg/l	101		68-160		
123478-HxCDF	0.730 J	0.151	10.0	pg/l	101		72-134		
123678-HxCDF	0.764 J	0.151	10.0	pg/l	99		84-130		
123789-HxCDF	0.850 J	0.155	10.0	pg/l	97		78-130		
234678-HxCDF	0.683 J	0.147	10.0	pg/l	100		70-156		
1234678-HpCDF	1.68 J	0.104	10.0	pg/l	100		82-122		
1234789-HpCDF	1.16 J	0.128	10.0	pg/l	102		78-138		
OCDF	5.00 J	0.345	20.0	pg/l	103		63-170		
Batch number: 11173002	Sample number(s): 6310788-6310798,6310801								
2378-TCDD	0.0163 J	0.0151	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0170 J	0.0148	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0157 J	0.0149	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0303 J	0.0152	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0403 J	0.0142	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.396 J	0.0336	5.00	ng/kg	91		70-140		
OCDD	0.888 J	0.0327	10.0	ng/kg	90		78-144		
2378-TCDF	0.0136 U	0.0136	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0266 J	0.00680	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0451 J	0.00820	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0434 J	0.0125	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0150 J	0.00890	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0235 J	0.0172	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0249 J	0.0114	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.0675 J	0.00910	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0845 J	0.0290	5.00	ng/kg	92		78-138		
OCDF	0.324 J	0.0891	10.0	ng/kg	92		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11178001	Sample number(s): 6310799-6310800,6310802-6310803									
2378-TCDD	0.0123	U	0.0123	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0470	J	0.0141	5.00	ng/kg	88		70-142		
123478-HxCDD	0.0572	J	0.0262	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0570	J	0.0272	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0780	J	0.0258	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.357	J	0.0479	5.00	ng/kg	90		70-140		
OCDD	0.811	J	0.0393	10.0	ng/kg	90		78-144		
2378-TCDF	0.0118	J	0.0111	1.00	ng/kg	91		75-158		
12378-PeCDF	0.0379	J	0.00710	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0563	J	0.00650	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0465	J	0.0129	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0500	J	0.0114	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0771	J	0.0148	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0295	J	0.0119	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.113	J	0.0205	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0781	J	0.0276	5.00	ng/kg	90		78-138		
OCDF	0.234	J	0.0361	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162403A	Sample number(s): 6310788-6310798 BKG: P310775								
Moisture Content by 160.3						11.4	11.6	2	20
Batch number: 11174162403B	Sample number(s): 6310799-6310803 BKG: P313369								
Moisture Content by 160.3						15.3	15.0	1	20
Batch number: 11173002	Sample number(s): 6310788-6310798,6310801 UNSPK: 6310796								
2378-TCDD	84	84	67-158	2	25				
12378-PeCDD	89	90	70-142	2	25				
123478-HxCDD	91	89	70-164	4	25				
123678-HxCDD	90	91	76-134	1	25				
123789-HxCDD	88	90	64-162	1	25				
1234678-HpCDD	90	90	70-140	2	25				
OCDD	91	91	78-144	2	25				
2378-TCDF	93	90	75-158	5	25				
12378-PeCDF	90	90	80-134	2	25				
23478-PeCDF	90	90	68-160	2	25				
123478-HxCDF	94	92	72-134	4	25				
123678-HxCDF	91	91	84-130	3	25				
123789-HxCDF	92	92	78-130	2	25				
234678-HxCDF	92	92	70-156	2	25				
1234678-HpCDF	90	90	82-122	2	25				
1234789-HpCDF	91	92	78-138	1	25				
OCDF	92	93	63-170	2	25				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11161005

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310804	43	37	37	38	39	41
Blank	66	65	65	64	68	71
OPR	69	69	72	71	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310804	36	35	32	84	37	37
Blank	59	57	46	84	65	64
OPR	63	60	48	85	70	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310804	38	38	38	33	45	37
Blank	65	63	57	46	69	64
OPR	71	71	61	49	69	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11173002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310788	72	68	68	80	71	69
6310789	60	61	61	72	67	62
6310790	59	62	63	72	67	66
6310791	76	75	77	87	84	85
6310792	78	71	72	80	76	69
6310793	76	71	65	72	73	80
6310794	71	67	68	78	70	67
6310795	63	62	64	75	68	63
6310796	69	67	46	51	71	69
6310797	74	70	71	81	74	73
6310798	72	69	71	82	73	66
6310801	72	68	58	69	73	64
Blank	66	56	55	75	59	45
MS	74	70	71	81	74	73
MSD	72	69	71	82	73	66
OPR	53	48	49	65	53	40
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310788	90	62	55	90	78	81

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

6310789	84	55	45	89	69	75
6310790	84	59	51	84	69	74
6310791	95	73	61	102	82	90
6310792	83	59	48	89	78	81
6310793	76	69	61	86	77	78
6310794	84	58	50	85	75	78
6310795	84	56	48	86	70	76
6310796	65	63	58	84	74	78
6310797	89	62	51	87	76	79
6310798	91	55	44	88	75	80
6310801	84	56	47	91	76	81
Blank	97	38	28	86	73	76
MS	89	62	51	87	76	79
MSD	91	55	44	88	75	80
OPR	83	33	23	78	58	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310788	79	81	80	74	63	76
6310789	75	77	75	68	53	66
6310790	73	75	76	70	52	66
6310791	89	91	90	80	69	81
6310792	80	82	77	69	72	80
6310793	77	78	76	70	71	75
6310794	76	79	76	69	63	74
6310795	75	77	76	68	54	67
6310796	77	79	77	72	62	71
6310797	78	81	80	73	68	78
6310798	78	80	76	69	66	77
6310801	80	82	81	72	65	78
Blank	75	76	76	69	53	71
MS	78	81	80	73	68	78
MSD	78	80	76	69	66	77
OPR	63	64	64	56	45	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310799	69	65	71	76	73	74
6310800	63	60	65	70	65	70
6310802	70	64	68	74	70	71
6310803	67	62	66	73	68	70
Blank	76	72	75	81	78	77
OPR	66	65	70	76	72	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310799	82	66	62	83	72	79
6310800	75	62	57	75	66	71

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

6310802	78	64	59	79	71	76
6310803	75	64	60	77	68	74
Blank	86	76	73	91	78	85
OPR	86	69	66	85	73	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310799	78	80	78	74	62	68
6310800	71	72	72	68	57	62
6310802	75	75	74	69	63	67
6310803	73	74	74	70	60	64
Blank	82	85	86	82	68	72
OPR	79	82	84	81	57	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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acct# 13013 Cp# 1250635 Sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-023-SA5DN-SB-4.5	06.08.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-4.0-5.0	06.08.11	1115	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SB-20.5	06.08.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-20.0-21.0	06.08.11	1130	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-4.5	06.08.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-4.0-5.0	06.08.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-23.5	06.08.11	0935	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-23.0-24.0	06.08.11	0940	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-4.5	06.08.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-4.0-5.0	06.08.11	1410	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-12.0	06.08.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-11.5-12.5	06.08.11	1420	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-061-SA5DN-SB-4.5	06.08.11	1520	SOIL	NONE	5-Encores										X	X	X										
SL-061-SA5DN-SB-4.0-5.0	06.08.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-061-SA5DN-SB-14.5	06.08.11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-061-SA5DN-SB-14.0-15.0	06.08.11	1535	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/08/2011 / 1700	6PM 905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Cap# 1250635 sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vedal Carter

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diazin/Furan EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs#EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-076-SA8N-SB-4.5MS	06.08.11	1000	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-076-SA8N-SB-4.0-5.0MS	06.08.11	1005	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD Hand Auger Sample-only 6 jars
SL-076-SA8N-SB-8.0	06.08.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA8N-SB-7.5-8.5	06.08.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.0	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-7.5-8.5	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-4.5	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-4.0-5.0	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.5	06.08.11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-9.0-10.0	06.08.11	1555	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
DUP10-SA8N-DC-060811	06.08.11	1010	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA8N-DC-060811	06.08.11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060811	06.08.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/08/2011 / 1700	Mary Hoke 6/9/11 905	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Cap# 1250635 Sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	5-1 L Ambers				X	X	X								
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	1-500mL plastic			X				X	X	X					
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HNO3	1-500 poly		X												
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HCL	6-40mL Vials											X	X		
Relinquished by: (*Signature*)	Date/Time 06/08/2011 / 1700		Received for Laboratory by: (*Signature*) Gary Hatch 6/9/11 905																Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3339 9202,9213,9224																

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/10/2011
Group Number: 1250864
SDG: DE177
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-037-SA5DN-SB-4.0-5.0 Soil	6312169
SL-037-SA5DN-SB-11.5-12.5 Soil	6312170
SL-038-SA5DN-SB-4.0-5.0 Soil	6312171
SL-038-SA5DN-SB-10.5-11.5 Soil	6312172
SL-039-SA5DN-SB-4.0-5.0 Soil	6312173
SL-039-SA5DN-SB-11.5-12.5 Soil	6312174
SL-040-SA5DN-SB-4.0-5.0 Soil	6312175
SL-040-SA5DN-SB-10.5-11.5 Soil	6312176
SL-050-SA5DN-SB-4.0-5.0 Soil	6312177
SL-050-SA5DN-SB-11.2-12.5 Soil	6312178
SL-116-SA8N-SB-4.0-5.0 Soil	6312179
TB-060911 Water	6312180
EB17-SA8N-SB-060911 Water	6312181
EB16-SA5DN-SB-060911 Water	6312182

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.85
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.15	J	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.85
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.7		20.3	40.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	2.2		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	4.6		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	12		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	12		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,800		7.02	23.2		1
07914	Boron	7440-42-8	8.14		0.418	5.80		1
01650	Calcium	7440-70-2	7,110		2.90	23.2		1
01654	Iron	7439-89-6	35,300		6.06	46.4		2
01656	Lithium	7439-93-2	24.8		0.72	2.3		1
01657	Magnesium	7439-95-4	6,790		0.510	11.6		1
06958	Manganese	7439-96-5	452		0.0418	0.580		1
10145	Phosphorus	7723-14-0	286		0.406	11.6		1
01662	Potassium	7440-09-7	4,100		13.1	58.0		1
01667	Sodium	7440-23-5	327		6.90	116		1
07968	Strontium	7440-24-6	36.5		0.0290	0.580		1
06969	Tin	7440-31-5	2.91	J	0.371	11.6		1
06970	Titanium	7440-32-6	891		0.0856	1.21		1
10146	Zirconium	7440-67-7	3.69	J	0.534	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.329		0.0867	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.17		0.0937	0.468		2
06126	Barium	7440-39-3	146		0.124	0.468		2
06127	Beryllium	7440-41-7	0.848		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.271		0.0515	0.117		2
06131	Chromium	7440-47-3	36.2		0.141	0.468		2
06132	Cobalt	7440-48-4	11.6		0.0234	0.117		2
06133	Copper	7440-50-8	20.6		0.0937	0.468		2
06135	Lead	7439-92-1	9.77		0.0123	0.241		2
06138	Molybdenum	7439-98-7	0.550		0.0586	0.117		2
06139	Nickel	7440-02-0	23.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.230	J	0.0679	0.468		2
06142	Silver	7440-22-4	0.0533	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.391		0.0351	0.117		2
06148	Vanadium	7440-62-2	69.2		0.0258	0.117		2
06149	Zinc	7440-66-6	77.3		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.57		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.16		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	17.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011	04:14	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011	15:56	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011	13:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011	14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011	14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011	13:53	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011	18:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011	06:48	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011	10:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011	14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011	07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011	18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011	14:59	Marie D John	21.19

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SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
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17701 SDG#: DE177-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:53	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/17/2011 19:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:11	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 09:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 00:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 19:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	111685708002	06/23/2011 02:52	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 09:54	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 06:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 16:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.87
06192	Methylene Chloride	75-09-2	2.0	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.7	J	18.4	36.8		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.62	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		6.63	21.9		1
07914	Boron	7440-42-8	2.56	J	0.394	5.48		1
01650	Calcium	7440-70-2	26,700		2.74	21.9		1
01654	Iron	7439-89-6	34,500		5.72	43.8		2
01656	Lithium	7439-93-2	32.5		0.68	2.2		1
01657	Magnesium	7439-95-4	6,990		0.482	11.0		1
06958	Manganese	7439-96-5	237		0.0394	0.548		1
10145	Phosphorus	7723-14-0	424		0.383	11.0		1
01662	Potassium	7440-09-7	2,190		12.4	54.8		1
01667	Sodium	7440-23-5	378		6.52	110		1
07968	Strontium	7440-24-6	39.0		0.0274	0.548		1
06969	Tin	7440-31-5	3.16	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,100		0.0778	1.10		1
10146	Zirconium	7440-67-7	3.33	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0811	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.41		0.0876	0.438		2
06126	Barium	7440-39-3	113		0.116	0.438		2
06127	Beryllium	7440-41-7	0.926		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.119		0.0482	0.110		2
06131	Chromium	7440-47-3	29.2		0.131	0.438		2
06132	Cobalt	7440-48-4	8.02		0.0219	0.110		2
06133	Copper	7440-50-8	16.8		0.0876	0.438		2
06135	Lead	7439-92-1	13.3		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.413		0.0548	0.110		2
06139	Nickel	7440-02-0	18.1		0.110	0.438		2
06141	Selenium	7782-49-2	0.161	J	0.0635	0.438		2
06142	Silver	7440-22-4	0.0679	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.314		0.0329	0.110		2
06148	Vanadium	7440-62-2	51.0		0.0241	0.110		2
06149	Zinc	7440-66-6	68.9		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0157	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	1.0	U	1.0	2.8		5
	Reporting limits were raised due to interference from the sample matrix.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 04:36	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:16	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 13:56	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 20:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 09:54	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 13:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 15:35	Marie D John	21.19

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17702 SDG#: DE177-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:56	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/17/2011 23:24	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:39	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 09:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/24/2011 22:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 19:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:13	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 09:57	Choon Y Tian	2

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 07:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:23	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:57	K Robert Caulfeild-James	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.89
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.13	J	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	20		28.09
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	387		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.81	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.3	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.97	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.91	J	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.0		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	88		4.6	14		10
10199	EFH (C30 - C40)	n.a.	200		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		6.69	22.1		1
07914	Boron	7440-42-8	7.88		0.398	5.53		1
01650	Calcium	7440-70-2	9,350		2.77	22.1		1
01654	Iron	7439-89-6	32,500		5.77	44.2		2
01656	Lithium	7439-93-2	25.9		0.69	2.2		1
01657	Magnesium	7439-95-4	7,260		0.487	11.1		1
06958	Manganese	7439-96-5	391		0.0398	0.553		1
10145	Phosphorus	7723-14-0	273		0.387	11.1		1
01662	Potassium	7440-09-7	3,890		12.5	55.3		1
01667	Sodium	7440-23-5	221		6.58	111		1
07968	Strontium	7440-24-6	44.0		0.0277	0.553		1
06969	Tin	7440-31-5	2.43	J	0.354	11.1		1
06970	Titanium	7440-32-6	954		0.0801	1.13		1
10146	Zirconium	7440-67-7	3.29	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.302		0.0859	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.91		0.0929	0.465		2
06126	Barium	7440-39-3	189		0.123	0.465		2
06127	Beryllium	7440-41-7	1.06		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.455		0.0511	0.116		2
06131	Chromium	7440-47-3	36.4		0.139	0.465		2
06132	Cobalt	7440-48-4	13.8		0.0232	0.116		2
06133	Copper	7440-50-8	21.0		0.0929	0.465		2
06135	Lead	7439-92-1	18.3		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.626		0.0581	0.116		2
06139	Nickel	7440-02-0	27.3		0.116	0.465		2
06141	Selenium	7782-49-2	0.229	J	0.0674	0.465		2
06142	Silver	7440-22-4	0.0623	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.444		0.0348	0.116		2
06148	Vanadium	7440-62-2	65.5		0.0256	0.116		2
06149	Zinc	7440-66-6	105		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0332	J	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-038-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 04:59	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:35	Jason M Long	28.09
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:00	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 20:20	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 10:20	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 14:07	Joseph M Gambler	1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 16:11	Marie D John	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:00	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 00:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 10:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:58	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 03:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:16	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 08:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 16:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.88
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	1.9	J	0.23	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.88
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.88
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	369		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.49	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.59	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		6.44	21.3		1
07914	Boron	7440-42-8	2.26	J	0.383	5.32		1
01650	Calcium	7440-70-2	7,530		2.66	21.3		1
01654	Iron	7439-89-6	19,800		2.78	21.3		1
01656	Lithium	7439-93-2	20.1		0.66	2.1		1
01657	Magnesium	7439-95-4	3,730		0.468	10.6		1
06958	Manganese	7439-96-5	134		0.0383	0.532		1
10145	Phosphorus	7723-14-0	129		0.372	10.6		1
01662	Potassium	7440-09-7	1,820		12.0	53.2		1
01667	Sodium	7440-23-5	215		6.33	106		1
07968	Strontium	7440-24-6	18.4		0.0266	0.532		1
06969	Tin	7440-31-5	2.55	J	0.340	10.6		1
06970	Titanium	7440-32-6	992		0.0763	1.07		1
10146	Zirconium	7440-67-7	2.33	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0810	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.0876	0.438		2
06126	Barium	7440-39-3	73.3		0.116	0.438		2
06127	Beryllium	7440-41-7	0.721		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0777	J	0.0482	0.110		2
06131	Chromium	7440-47-3	20.0		0.131	0.438		2
06132	Cobalt	7440-48-4	6.77		0.0219	0.110		2
06133	Copper	7440-50-8	9.57		0.0876	0.438		2
06135	Lead	7439-92-1	6.66		0.0108	0.213		2
06138	Molybdenum	7439-98-7	0.280		0.0548	0.110		2
06139	Nickel	7440-02-0	11.5		0.110	0.438		2
06141	Selenium	7782-49-2	0.0635	U	0.0635	0.438		2
06142	Silver	7440-22-4	0.0162	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.275		0.0329	0.110		2
06148	Vanadium	7440-62-2	39.8		0.0241	0.110		2
06149	Zinc	7440-66-6	47.1		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.88	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-038-SA5DN-SB-11.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 05:21	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:55	Jason M Long	20.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:04	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	07/01/2011 12:20	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 10:47	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 15:30	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 16:48	Marie D John	20.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:03	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 00:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:58	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:23	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 10:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/24/2011 23:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 20:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 08:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:45	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.91
06192	Bromoform	75-25-2	0.43	U	0.43	4.2		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.91
06192	Methylene Chloride	75-09-2	1.8	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.13	J	0.09	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	192	U	192	384		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.0		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	8.8	J	7.0	21		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	3.6		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	3.7		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.78	1.9		1
10138	Pyrene	129-00-0	3.2		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	18		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	46		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,900		7.07	23.4		1
07914	Boron	7440-42-8	8.30		0.421	5.84		1
01650	Calcium	7440-70-2	11,000		2.92	23.4		1
01654	Iron	7439-89-6	35,600		6.10	46.7		2
01656	Lithium	7439-93-2	27.7		0.72	2.3		1
01657	Magnesium	7439-95-4	7,490		0.514	11.7		1
06958	Manganese	7439-96-5	387		0.0421	0.584		1
10145	Phosphorus	7723-14-0	298		0.409	11.7		1
01662	Potassium	7440-09-7	3,920		13.2	58.4		1
01667	Sodium	7440-23-5	358		6.95	117		1
07968	Strontium	7440-24-6	43.6		0.0292	0.584		1
06969	Tin	7440-31-5	3.03	J	0.374	11.7		1
06970	Titanium	7440-32-6	938		0.0805	1.13		1
10146	Zirconium	7440-67-7	4.91	J	0.537	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.480		0.0839	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.80		0.0907	0.454		2
06126	Barium	7440-39-3	156		0.301	1.13		5
06127	Beryllium	7440-41-7	1.16		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.395		0.0499	0.113		2
06131	Chromium	7440-47-3	44.2		0.136	0.454		2
06132	Cobalt	7440-48-4	14.3		0.0227	0.113		2
06133	Copper	7440-50-8	25.0		0.0907	0.454		2
06135	Lead	7439-92-1	13.1		0.0119	0.234		2
06138	Molybdenum	7439-98-7	0.638		0.0567	0.113		2
06139	Nickel	7440-02-0	32.3		0.113	0.454		2
06141	Selenium	7782-49-2	0.113	J	0.0658	0.454		2
06142	Silver	7440-22-4	0.0890	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.447		0.0340	0.113		2
06148	Vanadium	7440-62-2	79.8		0.0250	0.113		2
06149	Zinc	7440-66-6	107		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0355	J	0.0078	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 05:44	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:15	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	07/01/2011 12:39	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 11:13	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 16:10	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 17:24	Marie D John	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 01:31	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 12:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:08	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 04:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:20	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 15:14	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:57	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 09:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	2.1	J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.85
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	2.2		0.38	1.9		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	2.0		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	14		10
10199	EFH (C15-C20)	n.a.	4.5	U	4.5	14		10
10199	EFH (C21-C30)	n.a.	100		4.5	14		10
10199	EFH (C30 - C40)	n.a.	300		4.5	14		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.87	22.7		1
07914	Boron	7440-42-8	2.61	J	0.409	5.68		1
01650	Calcium	7440-70-2	26,100		2.84	22.7		1
01654	Iron	7439-89-6	22,200		2.96	22.7		1
01656	Lithium	7439-93-2	22.6		0.70	2.3		1
01657	Magnesium	7439-95-4	4,300		0.499	11.4		1
06958	Manganese	7439-96-5	218		0.0409	0.568		1
10145	Phosphorus	7723-14-0	269		0.397	11.4		1
01662	Potassium	7440-09-7	1,950		12.8	56.8		1
01667	Sodium	7440-23-5	258		6.75	114		1
07968	Strontium	7440-24-6	42.0		0.0284	0.568		1
06969	Tin	7440-31-5	2.56	J	0.363	11.4		1
06970	Titanium	7440-32-6	1,040		0.0806	1.14		1
10146	Zirconium	7440-67-7	2.98	J	0.522	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.50		0.0873	0.437		2
06126	Barium	7440-39-3	95.5		0.116	0.437		2
06127	Beryllium	7440-41-7	0.773		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.185		0.0480	0.109		2
06131	Chromium	7440-47-3	30.0		0.131	0.437		2
06132	Cobalt	7440-48-4	5.92		0.0218	0.109		2
06133	Copper	7440-50-8	9.58		0.0873	0.437		2
06135	Lead	7439-92-1	6.16		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.370		0.0546	0.109		2
06139	Nickel	7440-02-0	13.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.0633	U	0.0633	0.437		2
06142	Silver	7440-22-4	0.135		0.0155	0.109		2
06145	Thallium	7440-28-0	0.264		0.0327	0.109		2
06148	Vanadium	7440-62-2	41.4		0.0240	0.109		2
06149	Zinc	7440-66-6	48.7		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.69	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:06	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:35	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 11:40	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 16:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 19:14	Marie D John	21.48

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 02:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:27	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 12:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 01:40	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 21:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 17:08	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 09:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	2.2	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.17	J	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	388		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	2.1		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	27		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	66		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,900		6.71	22.2		1
07914	Boron	7440-42-8	8.21		0.399	5.54		1
01650	Calcium	7440-70-2	10,700		2.77	22.2		1
01654	Iron	7439-89-6	33,000		5.79	44.3		2
01656	Lithium	7439-93-2	24.6		0.69	2.2		1
01657	Magnesium	7439-95-4	6,690		0.488	11.1		1
06958	Manganese	7439-96-5	372		0.0399	0.554		1
10145	Phosphorus	7723-14-0	259		0.388	11.1		1
01662	Potassium	7440-09-7	3,720		12.5	55.4		1
01667	Sodium	7440-23-5	273		6.60	111		1
07968	Strontium	7440-24-6	41.5		0.0277	0.554		1
06969	Tin	7440-31-5	3.44	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,100		0.0795	1.12		1
10146	Zirconium	7440-67-7	4.28	J	0.510	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.349		0.0836	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.56		0.0904	0.452		2
06126	Barium	7440-39-3	154		0.120	0.452		2
06127	Beryllium	7440-41-7	0.872		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.380		0.0497	0.113		2
06131	Chromium	7440-47-3	33.7		0.136	0.452		2
06132	Cobalt	7440-48-4	12.5		0.0226	0.113		2
06133	Copper	7440-50-8	18.8		0.0904	0.452		2
06135	Lead	7439-92-1	14.1		0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.588		0.0565	0.113		2
06139	Nickel	7440-02-0	25.2		0.113	0.452		2
06141	Selenium	7782-49-2	0.163	J	0.0656	0.452		2
06142	Silver	7440-22-4	0.0528	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.333		0.0339	0.113		2
06148	Vanadium	7440-62-2	63.1		0.0249	0.113		2
06149	Zinc	7440-66-6	93.1		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0154	J	0.0078	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SL-040-SA5DN-SB-4.0-5.0

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17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:28	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:55	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:16	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:33	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 12:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 08:39	Joseph M Gambler	1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
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SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 13:10	Marie D John	21.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:16	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 02:56	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:33	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 04:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:23	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

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17707 SDG#: DE177-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201B	06/22/2011 02:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201B	06/22/2011 02:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 17:26	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201B	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.0	8.4		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.99
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.99
06192	Methylene Chloride	75-09-2	3.4	J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.99

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.22	J	0.08	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	355		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	180	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	1.4	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	28		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	25		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	13		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	31		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	4.5		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	31		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	6.7		0.71	1.8		1
10138	Pyrene	129-00-0	25		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	4.5		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	2,970		6.26	20.7		1
07914	Boron	7440-42-8	1.93	J	0.373	5.18		1
01650	Calcium	7440-70-2	18,800		2.59	20.7		1
01654	Iron	7439-89-6	4,320		2.70	20.7		1
01656	Lithium	7439-93-2	1.3	J	0.64	2.1		1
01657	Magnesium	7439-95-4	893		0.455	10.4		1
06958	Manganese	7439-96-5	126		0.0373	0.518		1
10145	Phosphorus	7723-14-0	324		0.362	10.4		1
01662	Potassium	7440-09-7	459		11.7	51.8		1
01667	Sodium	7440-23-5	164		6.16	104		1
07968	Strontium	7440-24-6	33.5		0.0259	0.518		1
06969	Tin	7440-31-5	1.83	J	0.331	10.4		1
06970	Titanium	7440-32-6	189		0.0735	1.04		1
10146	Zirconium	7440-67-7	1.74	J	0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.50		0.0820	0.410		2
06126	Barium	7440-39-3	21.0		0.109	0.410		2
06127	Beryllium	7440-41-7	0.143		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0879	J	0.0451	0.103		2
06131	Chromium	7440-47-3	12.4		0.123	0.410		2
06132	Cobalt	7440-48-4	1.99		0.0205	0.103		2
06133	Copper	7440-50-8	2.61		0.0820	0.410		2
06135	Lead	7439-92-1	2.01		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.618		0.0513	0.103		2
06139	Nickel	7440-02-0	6.64		0.103	0.410		2
06141	Selenium	7782-49-2	0.0595	U	0.0595	0.410		2
06142	Silver	7440-22-4	0.0146	U	0.0146	0.103		2
06145	Thallium	7440-28-0	0.0308	U	0.0308	0.103		2
06148	Vanadium	7440-62-2	12.9		0.0226	0.103		2
06149	Zinc	7440-66-6	10.1		0.574	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5DN-SB-10.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:51	Angela D Sneeringer	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:15	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:20	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:51	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 12:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 09:10	Joseph M Gambler	1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 19:50	Marie D John	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:19	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 03:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:46	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 00:50	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 11:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 00:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/21/2011 23:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/21/2011 23:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 10:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 17:43	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:44	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	1.7	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.17	J	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,800		6.78	22.4		1
07914	Boron	7440-42-8	8.54		0.403	5.60		1
01650	Calcium	7440-70-2	8,320		2.80	22.4		1
01654	Iron	7439-89-6	35,700		5.85	44.8		2
01656	Lithium	7439-93-2	28.1		0.69	2.2		1
01657	Magnesium	7439-95-4	7,670		0.493	11.2		1
06958	Manganese	7439-96-5	372		0.0403	0.560		1
10145	Phosphorus	7723-14-0	251		0.392	11.2		1
01662	Potassium	7440-09-7	3,610		12.7	56.0		1
01667	Sodium	7440-23-5	572		6.67	112		1
07968	Strontium	7440-24-6	41.2		0.0280	0.560		1
06969	Tin	7440-31-5	2.73	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,280		0.0803	1.13		1
10146	Zirconium	7440-67-7	5.87		0.515	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0837	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0905	0.453		2
06126	Barium	7440-39-3	127		0.120	0.453		2
06127	Beryllium	7440-41-7	0.892		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.231		0.0498	0.113		2
06131	Chromium	7440-47-3	33.3		0.136	0.453		2

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	10.7	0.0226	0.113		2
06133	Copper	7440-50-8	16.8	0.0905	0.453		2
06135	Lead	7439-92-1	13.7	0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.369	0.0566	0.113		2
06139	Nickel	7440-02-0	22.7	0.113	0.453		2
06141	Selenium	7782-49-2	0.0900 J	0.0656	0.453		2
06142	Silver	7440-22-4	0.0407 J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.340	0.0339	0.113		2
06148	Vanadium	7440-62-2	54.7	0.0249	0.113		2
06149	Zinc	7440-66-6	69.5	0.634	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	25.8	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-050-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

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17709 SDG#: DE177-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:13	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:35	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 16:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 09:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:34	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 00:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 10:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.67	22.1		1
07914	Boron	7440-42-8	4.30	J	0.397	5.51		1
01650	Calcium	7440-70-2	13,500		2.76	22.1		1
01654	Iron	7439-89-6	23,500		2.88	22.1		1
01656	Lithium	7439-93-2	23.5		0.68	2.2		1
01657	Magnesium	7439-95-4	5,090		0.485	11.0		1
06958	Manganese	7439-96-5	271		0.0397	0.551		1
10145	Phosphorus	7723-14-0	251		0.386	11.0		1
01662	Potassium	7440-09-7	2,990		12.5	55.1		1
01667	Sodium	7440-23-5	477		6.56	110		1
07968	Strontium	7440-24-6	29.9		0.0276	0.551		1
06969	Tin	7440-31-5	2.49	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,160		0.0768	1.08		1
10146	Zirconium	7440-67-7	3.83	J	0.507	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.85		0.0873	0.437		2
06126	Barium	7440-39-3	75.3		0.116	0.437		2
06127	Beryllium	7440-41-7	0.799		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.218		0.0480	0.109		2
06131	Chromium	7440-47-3	28.0		0.131	0.437		2
06132	Cobalt	7440-48-4	10.0		0.0218	0.109		2
06133	Copper	7440-50-8	14.8		0.0873	0.437		2
06135	Lead	7439-92-1	10.5		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.406		0.0546	0.109		2
06139	Nickel	7440-02-0	22.4		0.109	0.437		2
06141	Selenium	7782-49-2	0.0633	U	0.0633	0.437		2
06142	Silver	7440-22-4	0.0408	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.328		0.0328	0.109		2
06148	Vanadium	7440-62-2	51.6		0.0240	0.109		2
06149	Zinc	7440-66-6	63.1		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011	16:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011	10:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011	07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011	18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011	13:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011	18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011	18:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011	10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 00:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 11:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.8
06192	Methylene Chloride	75-09-2	1.8	J	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.8

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.8
06192	Toluene	108-88-3	0.17	J	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.8
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	192	U	192	384		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	4.4		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.1	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.51	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	5.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

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14420 Albemarle Point Place
Suite 210
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17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		6.84	22.6		1
07914	Boron	7440-42-8	3.16	J	0.407	5.65		1
01650	Calcium	7440-70-2	3,400		2.83	22.6		1
01654	Iron	7439-89-6	22,400		2.95	22.6		1
01656	Lithium	7439-93-2	26.4		0.70	2.3		1
01657	Magnesium	7439-95-4	5,620		0.498	11.3		1
06958	Manganese	7439-96-5	212		0.0407	0.565		1
10145	Phosphorus	7723-14-0	490		0.396	11.3		1
01662	Potassium	7440-09-7	3,240		12.8	56.5		1
01667	Sodium	7440-23-5	101	J	6.73	113		1
07968	Strontium	7440-24-6	20.6		0.0283	0.565		1
06969	Tin	7440-31-5	2.60	J	0.362	11.3		1
06970	Titanium	7440-32-6	1,140		0.0803	1.13		1
10146	Zirconium	7440-67-7	2.73	J	0.520	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0821	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.22		0.0887	0.444		2
06126	Barium	7440-39-3	109		0.118	0.444		2
06127	Beryllium	7440-41-7	0.690		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.213		0.0488	0.111		2
06131	Chromium	7440-47-3	25.4		0.133	0.444		2
06132	Cobalt	7440-48-4	7.31		0.0222	0.111		2
06133	Copper	7440-50-8	14.3		0.0887	0.444		2
06135	Lead	7439-92-1	12.5		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.639		0.0555	0.111		2
06139	Nickel	7440-02-0	16.8		0.111	0.444		2
06141	Selenium	7782-49-2	0.144	J	0.0643	0.444		2
06142	Silver	7440-22-4	0.0783	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.345		0.0333	0.111		2
06148	Vanadium	7440-62-2	48.3		0.0244	0.111		2
06149	Zinc	7440-66-6	78.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:35	Angela D Sneeringer	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:55	Jason M Long	20.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:30	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 22:09	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 17:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 10:44	Joseph M Gambler	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 20:26	Marie D John	20.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:30	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 04:21	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 14:18	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 01:15	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 11:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 01:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2

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SL-116-SA8N-SB-4.0-5.0

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17711 SDG#: DE177-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201B	06/22/2011 11:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:23	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201B	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-060911 Water
SSFL Area IV Collocated Soil Sampling
TB-060911

LLI Sample # WW 6312180
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 08:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17712 SDG#: DE177-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-060911 Water
SSFL Area IV Collocated Soil Sampling
TB-060911

LLI Sample # WW 6312180
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 08:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17712 SDG#: DE177-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011	17:17	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111641AA	06/13/2011	10:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111641AA	06/13/2011	10:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011	17:17	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011	09:25	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011	09:25	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: EB17-SA8N-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	7.17		0.506	1.01		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 6.03 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.43	J	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA8N-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.14	J	0.10	0.60		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB17-SA8N-SB-060911 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11166WAA026	06/30/2011 09:50	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11166WAA026	06/15/2011 14:15	Kerrie A Freeburn	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011 09:47	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011 09:47	Carrie E Miller	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 22:05	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111620001A	06/13/2011 11:45	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111620001A	06/11/2011 09:45	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111650031A	06/18/2011 04:25	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111650033A	06/15/2011 01:24	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111650002A	06/15/2011 12:33	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111650009A	06/17/2011 11:29	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111650031A	06/15/2011 08:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111650009A	06/14/2011 17:30	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11161196601B	06/10/2011 21:22	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:54	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	7.95		0.498	0.995		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 6.03 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.40	U	0.40	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.3		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Due to interfering peaks on the chromatogram, the values reported for 4-Am-2,6-dinitrotoluene represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.13	J	0.10	0.60		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	210	J	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.080	U	0.080	0.25		1
10319	o-Terphenyl	84-15-1	0.080	U	0.080	0.25		1
10319	p-Terphenyl	92-94-4	0.080	U	0.080	0.25		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11166WAA026	06/30/2011 10:09	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11166WAA026	06/15/2011 14:15	Kerrie A Freeburn	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011 10:08	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011 10:08	Carrie E Miller	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 22:48	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111620001A	06/13/2011 11:55	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111620001A	06/11/2011 09:45	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111650031A	06/18/2011 04:50	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111650033A	06/15/2011 01:39	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111650002A	06/15/2011 12:50	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111650009A	06/17/2011 12:14	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111650031A	06/15/2011 08:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111650009A	06/14/2011 17:30	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11161196601B	06/10/2011 21:37	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:56	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111661AA	Sample number(s): 6312169-6312177,6312179									
Acetone	9.0		6.7	8.0	ug/kg	117	124	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	107	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	101	103	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	83	86	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	113	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	91	72-120	11	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	93	75-120	8	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	91	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	108	107	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	102	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	89	94	43-146	6	30
Chloroform	0.12	U	0.12	4.0	ug/kg	109	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	92	96	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	69	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	112	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	103	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	105	106	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	100	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	97	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	98	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	108	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	115	115	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	109	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	102	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	101	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	108	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	110	112	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	99	100	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	102	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	101	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	69	57-120	27	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	107	114	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	92	75-120	8	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	112	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	118	61-134	6	30
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	128*	125*	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103	99	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	103	101	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100	105	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	99	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	87	64-120	10	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89	81	68-120	9	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	103	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	106	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95	94	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	107	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	98	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	100	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	93	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	102	80-120	2	30
Batch number: E111641AA	Sample number(s): 6312180									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	80-123	7	30
Batch number: E111642AA	Sample number(s): 6312169-6312177,6312179									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6312180									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11165SLE026	Sample number(s): 6312169-6312176,6312179									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11166SLA026	Sample number(s): 6312169-6312179									
Aniline	170 U		170.	500	ug/kg	60		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	87		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	21	J	17.	330	ug/kg	110		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	76		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11166SLC026	Sample number(s): 6312169-6312179									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	85		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	107		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	87		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 11166WAA026	Sample number(s): 6312181-6312182									
N-Nitrosodimethylamine	6.03		0.500	1.00	ng/l	110	95	70-130	15	30
Batch number: 11165A34A	Sample number(s): 6312169-6312176,6312179									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11171B20A	Sample number(s): 6312180-6312182									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111640009A	Sample number(s): 6312169-6312176,6312179									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	84	100	54-134	18	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	100	54-134	18	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	113		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	118		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	103		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111640024A	Sample number(s): 6312181-6312182									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	100	50-122	11	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	100	50-122	11	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	97	97	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	98	99	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	97	98	74-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	97	97	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	90	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	82	83	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	89	53-129	2	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111620001A	Sample number(s): 6312181-6312182									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	94	92	69-130	2	30
Batch number: 111660002A	Sample number(s): 6312169-6312176,6312179									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 111660019A	Sample number(s): 6312172									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111650017A	Sample number(s): 6312169-6312179									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	105	102	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	100		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111650031A	Sample number(s): 6312181-6312182									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	90	98	69-125	9	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	92	103	77-125	11	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	108	68-124	15	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	107	80-121	13	30
EFH (C8-C11)	0.11	J	0.10	0.60	mg/l	86	104*	46-103	19	30
Batch number: 111710009A	Sample number(s): 6312171,6312173,6312175									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	94		69-132		
EFH (C30 - C40)	2.2		0.40	1.2	mg/kg	91		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 111730006A	Sample number(s): 6312169-6312170,6312172,6312174,6312176,6312179									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	108		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	109		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		54-107		
Batch number: 111610017A	Sample number(s): 6312169-6312176,6312179									
Diethylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111610018A	Sample number(s): 6312169-6312176,6312179									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	83		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111650002A	Sample number(s): 6312181-6312182									
Diethylene glycol	10	U	10.	100	mg/l	110	105	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	105	100	80-124	5	20
Propylene glycol	10	U	10.	100	mg/l	105	100	80-120	5	20
Batch number: 111650033A	Sample number(s): 6312181-6312182									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	88		75-125		
Methanol	200 U		200.	1,000	ug/l	96		71-140		
Batch number: 111640015A	Sample number(s): 6312169-6312176,6312179									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 111650009A	Sample number(s): 6312181-6312182									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	85	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	98	98	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	97	96	75-125	1	20
Batch number: 111681026001A	Sample number(s): 6312169-6312179									
Antimony	0.0740	U	0.0740	0.200	mg/kg	137		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	107		81-112		
Batch number: 111681026001B	Sample number(s): 6312169-6312179									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		83-111		
Batch number: 111681026001C	Sample number(s): 6312169-6312179									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	121		78-122		
Batch number: 111681026001D	Sample number(s): 6312169-6312179									
Barium	0.106	U	0.106	0.400	mg/kg	105		81-111		
Batch number: 111685708002	Sample number(s): 6312169-6312179									
Aluminum	5.85	J	5.76	19.0	mg/kg	90		61-110		
Boron	0.868	J	0.343	4.76	mg/kg	91		78-110		
Calcium	14.7	J	2.38	19.0	mg/kg	98		88-110		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	3.86	J	2.49	19.0	mg/kg	84		61-110		
Lithium	0.59	U	0.59	1.9	mg/kg	97		80-120		
Magnesium	0.630	J	0.419	9.52	mg/kg	94		82-110		
Manganese	0.0343	U	0.0343	0.476	mg/kg	94		89-112		
Phosphorus	1.54	J	0.333	9.52	mg/kg	99		80-120		
Potassium	10.8	U	10.8	47.6	mg/kg	96		78-110		
Sodium	5.67	U	5.67	95.2	mg/kg	94		87-110		
Strontium	0.0819	J	0.0238	0.476	mg/kg	94		86-110		
Tin	1.52	J	0.305	9.52	mg/kg	94		90-114		
Zirconium	0.438	U	0.438	4.76	mg/kg	96		80-120		
Batch number: 111685711003	Sample number(s): 6312169-6312179									
Mercury	0.0065	U	0.0065	0.0923	mg/kg	107		88-123		
Batch number: 111725708005	Sample number(s): 6312169-6312179									
Titanium	0.0710	U	0.0710	1.00	mg/kg	85		80-120		
Batch number: 111731026001A	Sample number(s): 6312169-6312179									
Lead	0.0102	U	0.0102	0.200	mg/kg	97		83-110		
Batch number: 11161196601B	Sample number(s): 6312181-6312182									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	100	100	90-110	0	20
Batch number: 11166117101B	Sample number(s): 6312181-6312182									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	99	98	90-110	1	20
Batch number: 11166243201A	Sample number(s): 6312169-6312179									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11168102201A	Sample number(s): 6312169-6312173									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11168102201B	Sample number(s): 6312174-6312176,6312179									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11171284201A	Sample number(s): 6312169-6312174,6312176-6312179									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11171284201B	Sample number(s): 6312175									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11172621201A	Sample number(s): 6312169-6312178									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11172621201B	Sample number(s): 6312179									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11166039401B	Sample number(s): 6312169-6312174									
18a pH by 9045C						100		95-105		
Batch number: 11167039401A	Sample number(s): 6312175-6312179									
18a pH by 9045C						100		95-105		
Batch number: 11165162401B	Sample number(s): 6312177-6312178									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162404A	Sample number(s): 6312169-6312176								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404B	Sample number(s): 6312179								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165SLE026	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
N-Nitrosodimethylamine	66*	89	70-130	28	30				
Batch number: 11166SLA026	Sample number(s): 6312169-6312179 UNSPK: 6312169								
Aniline	74	68	35-95	9	30				
Benzidine	58	44	35-141	26	30				
Benzoic acid	51	49	10-173	3	30				
Benzyl alcohol	86	87	67-115	1	30				
4-Bromophenyl-phenylether	91	91	67-129	1	30				
Carbazole	90	88	64-120	2	30				
4-Chloro-3-methylphenol	85	85	76-110	1	30				
4-Chloroaniline	62	51	23-95	19	30				
bis(2-Chloroethoxy)methane	89	89	75-104	0	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	84	84	55-142	1	30				
2-Chloronaphthalene	88	83	50-141	6	30				
2-Chlorophenol	88	91	73-121	3	30				
4-Chlorophenyl-phenylether	89	89	80-109	0	30				
Dibenzofuran	89	92	71-112	3	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	78	83	63-109	6	30				
1,4-Dichlorobenzene	80	83	70-100	4	30				
3,3'-Dichlorobenzidine	74	74	16-119	0	30				
2,4-Dichlorophenol	89	89	78-117	0	30				
2,4-Dimethylphenol	93	93	78-110	1	30				
3,5-Dimethylphenol	96	96	70-130	0	30				
4,6-Dinitro-2-methylphenol	73	70	24-116	3	30				
2,4-Dinitrophenol	58	52	20-143	11	30				
2,4-Dinitrotoluene	86	85	73-113	0	30				
2,6-Dinitrotoluene	91	91	69-123	0	30				
1,2-Diphenylhydrazine	104	103	71-129	1	30				
bis(2-Ethylhexyl)phthalate	105	103	63-122	1	30				
Hexachlorobenzene	94	94	77-114	0	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	75	76	10-153	0	30				
Hexachloroethane	78	83	57-109	7	30				
Isophorone	91	91	73-102	0	30				
2-Methylphenol	85	85	75-111	0	30				
4-Methylphenol	81	83	71-111	3	30				
2-Nitroaniline	92	93	67-125	1	30				
3-Nitroaniline	85	83	59-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitroaniline	65	64	52-112	2	30				
Nitrobenzene	93	94	72-106	2	30				
2-Nitrophenol	91	89	74-115	2	30				
4-Nitrophenol	80	78	54-113	2	30				
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodiphenylamine	98	97	86-145	1	30				
Pentachlorophenol	85	80	28-127	6	30				
Phenol	88	87	58-126	1	30				
1,2,4-Trichlorobenzene	90	94	72-115	4	30				
2,4,5-Trichlorophenol	90	92	78-109	3	30				
2,4,6-Trichlorophenol	95	97	77-115	1	30				
Batch number: 11166SLC026	Sample number(s): 6312169-6312179 UNSPK: 6312169								
Acenaphthene	87	86	63-105	1	30				
Acenaphthylene	81	79	67-114	2	30				
Anthracene	90	90	60-122	0	30				
Benzo(a)anthracene	99	98	59-128	1	30				
Benzo(a)pyrene	99	98	45-138	1	30				
Benzo(b)fluoranthene	104	107	43-155	3	30				
Benzo(g,h,i)perylene	93	87	33-141	7	30				
Benzo(k)fluoranthene	103	95	42-144	8	30				
Butylbenzylphthalate	115	113	57-173	1	30				
Di-n-butylphthalate	106	104	65-148	2	30				
Chrysene	98	96	48-134	2	30				
Dibenz(a,h)anthracene	98	93	22-133	5	30				
Diethylphthalate	91	90	70-136	1	30				
Dimethylphthalate	90	90	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	109	109	39-167	0	30				
Fluoranthene	97	97	26-166	1	30				
Fluorene	88	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	98	93	21-143	5	30				
1-Methylnaphthalene	92	89	72-123	4	30				
2-Methylnaphthalene	83	79	64-103	4	30				
Naphthalene	84	80	61-102	4	30				
N-Nitrosodimethylamine	88	87	48-113	1	30				
Di-n-octylphthalate	112	108	40-192	3	30				
Phenanthrene	88	88	12-165	1	30				
Pyrene	89	89	15-153	0	30				
Batch number: 111640009A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
4-Amino-2,6-Dinitrotoluene	102	113	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	100	111	80-137	10	50				
1,3-Dinitrobenzene	106	115	38-166	8	50				
2,4-Dinitrotoluene	98	107	80-131	9	50				
2,6-Dinitrotoluene	102	112	80-127	9	50				
HMX	83	97	63-128	15	50				
Nitrobenzene	102	110	80-125	8	50				
Nitroglycerin	86	96	80-120	11	50				
2-Nitrotoluene	98	106	80-122	8	50				
3-Nitrotoluene	105	113	72-119	7	50				
4-Nitrotoluene	97	106	80-125	8	50				
PETN	107	123*	80-121	14	50				
RDX	74*	86	75-129	15	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetryl	58	69	55-174	16	50				
1,3,5-Trinitrobenzene	79*	94	82-126	18	50				
2,4,6-Trinitrotoluene	99	110	82-130	10	50				
Batch number: 111660002A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
25a Formaldehyde 8315A	97	97	80-120	2	50				
Batch number: 111660019A	Sample number(s): 6312172 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111650017A	Sample number(s): 6312169-6312179 UNSPK: 6312169								
PCB-1016	91	93	29-146	1	50				
PCB-1260	99	102	39-149	3	50				
Batch number: 111710009A	Sample number(s): 6312171,6312173,6312175 UNSPK: P312169								
EFH (C12-C14)	96	93	49-123	4	20				
EFH (C15-C20)	128*	122	49-123	5	20				
EFH (C21-C30)	201*	131*	49-123	23*	20				
EFH (C30 - C40)	337*	231*	49-123	17	20				
EFH (C8-C11)	99	93	49-123	6	20				
Batch number: 111730006A	Sample number(s): 6312169-6312170,6312172,6312174,6312176,6312179 UNSPK: 6312170								
EFH (C12-C14)	79	96	49-123	20	20				
EFH (C15-C20)	107	110	49-123	3	20				
EFH (C21-C30)	87	93	49-123	5	20				
EFH (C30 - C40)	92	98	49-123	6	20				
EFH (C8-C11)	87	100	49-123	14	20				
Batch number: 111610017A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
Diethylene glycol	50*	56*	59-109	13	20				
Ethylene glycol	69	76	63-107	10	20				
Propylene glycol	74	81	63-107	9	20				
Batch number: 111610018A	Sample number(s): 6312169-6312176,6312179 UNSPK: P310775								
Ethanol	70	70	48-130	0	20				
Isopropanol	70	70	12-149	1	20				
Methanol	73	74	43-138	2	20				
Batch number: 111650033A	Sample number(s): 6312181-6312182 UNSPK: P313718								
Ethanol	92	96	62-145	4	20				
Isopropanol	88	92	73-131	4	20				
Methanol	96	100	52-159	4	20				
Batch number: 111640015A	Sample number(s): 6312169-6312176,6312179 UNSPK: P309733								
m-Terphenyl	68*	66*	75-125	3	20				
o-Terphenyl	77	76	75-125	2	20				
p-Terphenyl	82	79	75-125	4	20				
Batch number: 111681026001A	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Antimony	83	85	75-125	2	20	0.217	0.277	24* (1)	20
Arsenic	104	153*	75-125	13	20	4.78	5.50	14	20
Beryllium	97	133*	75-125	17	20	0.722	0.843	15	20
Cadmium	95	113	75-125	12	20	0.393	0.336	16 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	35*	84	75-125	12	20	33.8	31.4	7	20
Cobalt	108	124	75-125	12	20	9.63	11.3	16	20
Copper	105	143*	75-125	13	20	15.4	16.8	9	20
Nickel	112	153*	75-125	12	20	20.0	22.7	13	20
Silver	106	116	75-125	9	20	0.0543 J	0.0598 J	10 (1)	20
Thallium	90	110	75-125	10	20	0.428	0.392	9 (1)	20
Vanadium	29 (2)	119 (2)	75-125	13	20	57.2	55.1	4	20
Zinc	112 (2)	200 (2)	75-125	11	20	62.2	67.7	9	20
Batch number: 111681026001B	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Selenium	98	112	75-125	12	20	0.181 J	0.145 J	22* (1)	20
Batch number: 111681026001C	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Molybdenum	106	121	75-125	13	20	0.368	0.422	14 (1)	20
Batch number: 111681026001D	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Barium	177 (2)	397 (2)	75-125	13	20	133	149	11	20
Batch number: 111685708002	Sample number(s): 6312169-6312179 UNSPK: 6312169 BKG: 6312169								
Aluminum	2397 (2)	1692 (2)	75-125	5	20	25,300	20,300	22*	20
Boron	91	92	84-115	1	20	6.68	5.22	25* (1)	20
Calcium	62 (2)	288 (2)	75-125	13	20	5,840	5,720	2	20
Iron	12445 (2)	13631 (2)	75-125	2	20	29,000	31,500	8	20
Lithium	99	100	82-114	1	20	20.3	17.5	15	20
Magnesium	297 (2)	386 (2)	75-125	3	20	5,580	5,050	10	20
Manganese	453 (2)	175 (2)	75-125	26*	20	371	271	31*	20
Phosphorus	108	161*	75-125	14	20	235	217	8	20
Potassium	146*	129*	75-125	4	20	3,370	2,900	15	20
Sodium	93	94	75-125	0	20	269	240	12 (1)	20
Strontium	93	94	75-115	1	20	30.0	26.4	13	20
Tin	84	86	80-110	0	20	2.39 J	2.25 J	6 (1)	20
Zirconium	93	93	75-125	1	20	3.03 J	2.53 J	18 (1)	20
Batch number: 111685711003	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Mercury	84	86	65-135	3	20	0.0068 U	0.0065 U	0 (1)	20
Batch number: 111725708005	Sample number(s): 6312169-6312179 UNSPK: 6312170 BKG: 6312170								
Titanium	206 (2)	284 (2)	75-125	7	20	985	1,130	14	20
Batch number: 111731026001A	Sample number(s): 6312169-6312179 UNSPK: 6312169 BKG: 6312169								
Lead	235 (2)	235 (2)	75-125	0	20	8.02	8.29	3	20
Batch number: 11166243201A	Sample number(s): 6312169-6312179 UNSPK: P313375 BKG: P313375								
3a Cr VI by EPA 7199	90		75-125			0.56 J	0.83 J	38* (1)	20
Batch number: 11168102201A	Sample number(s): 6312169-6312173 UNSPK: P310779 BKG: P310779								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11168102201B	Sample number(s): 6312174-6312176,6312179 UNSPK: 6312174 BKG: 6312174								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11171284201A	Sample number(s): 6312169-6312174,6312176-6312179 UNSPK: 6312176 BKG: 6312176										
11a Anions by 300.0 - Fluoride	82		80-120			1.5		1.5		3 (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			1.1	J	0.99	J	11 (1)	20
Batch number: 11171284201B	Sample number(s): 6312175 UNSPK: 6312175 BKG: 6312175										
11a Anions by 300.0 - Fluoride	35*		80-120			7.9		7.9		0	20
11a Anions by 300.0 - Nitrate	91		80-120			1.7		1.8		3 (1)	20
Batch number: 11172621201A	Sample number(s): 6312169-6312178 UNSPK: 6312169 BKG: 6312169										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11172621201B	Sample number(s): 6312179 UNSPK: 6312179 BKG: 6312179										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11166039401B	Sample number(s): 6312169-6312174 BKG: 6312174										
18a pH by 9045C						8.69		8.74		1	3
Batch number: 11167039401A	Sample number(s): 6312175-6312179 BKG: 6312175										
18a pH by 9045C						8.16		8.20		0	3
Batch number: 11165162401B	Sample number(s): 6312177-6312178 BKG: 6312177										
Moisture Content by 160.3						12.5		12.4		1	20
Batch number: 11174162404A	Sample number(s): 6312169-6312176 BKG: 6312175										
Moisture Content by 160.3						14.1		14.5		3	20
Batch number: 11174162404B	Sample number(s): 6312179 BKG: P318825										
Moisture Content by 160.3						14.0		14.1		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6312169	107	108	100	95
6312170	104	99	101	95
6312171	105	105	100	93
6312172	106	104	100	97
6312173	107	109	98	94
6312174	106	103	101	93
6312175	106	101	102	90
6312176	106	100	100	94
6312177	108	109	99	96
6312179	106	100	101	92
Blank	104	102	100	95
LCS	103	105	103	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

LCSD	103	107	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111641AA

	Toluene-d8
6312180	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6312169	97
6312170	97
6312171	97
6312172	97
6312173	97
6312174	97
6312175	97
6312176	97
6312177	97
6312179	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6312180	105	103	99	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11165SLE026

	N-Nitrosodimethylamine-d6
6312169	111
6312170	203*
6312171	120
6312172	113
6312173	106
6312174	132

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312175	121
6312176	121
6312179	123
Blank	111
LCS	127
MS	170*
MSD	108
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11166SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6312169	79	82	76	85	90	80
6312170	82	81	80	84	88	82
6312171	74	76	76	76	81	81
6312172	80	81	81	84	89	83
6312173	80	81	81	86	89	88
6312174	81	82	84	86	89	83
6312175	83	85	86	88	92	85
6312176	83	83	84	90	92	85
6312177	77	77	78	81	82	77
6312178	82	84	83	87	88	80
6312179	81	83	86	85	91	85
Blank	85	83	88	87	90	87
LCS	89	89	84	94	93	87
MS	89	89	85	93	93	85
MSD	85	87	84	93	94	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11166SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6312169	92	77	101
6312170	93	78	97
6312171	95	84	97
6312172	96	83	101
6312173	90	77	94
6312174	94	76	94
6312175	100	81	91
6312176	100	82	93
6312177	94	79	88
6312178	100	83	97
6312179	96	79	90
Blank	100	82	96
LCS	103	85	98
MS	106	88	100
MSD	100	87	98
Limits:	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11166WAA026

	N-Nitrosodimethylamine-

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

	d6
6312181	151*
6312182	154*
Blank	110
LCS	113
LCSD	135
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F
6312169	69
6312170	69
6312171	74
6312172	70
6312173	66
6312174	75
6312175	78
6312176	79
6312179	72
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11171B20A

	Trifluorotoluene-F
6312180	87
6312181	87
6312182	87
Blank	85
LCS	113
LCSD	112
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111620001A

	Butyraldehyde
6312181	104
6312182	108
Blank	94
LCS	96
LCSD	91
Limits:	45-145

Analysis Name: 16a Energetics by 8330A
Batch number: 111640009A

	2-Nitro-m-xylene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312169	104
6312170	118
6312171	123
6312172	126
6312173	119
6312174	123
6312175	125
6312176	121
6312179	118
Blank	111
LCS	117
LCSD	118
MS	113
MSD	113
Limits:	80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111640024A

	2-Nitro-m-xylene
6312181	109
6312182	98
Blank	107
LCS	102
LCSD	106
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111650017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6312169	103	99
6312170	98	91
6312171	91	86
6312172	93	107
6312173	91	72
6312174	95	73
6312175	86	83
6312176	94	79
6312177	89	88
6312178	96	88
6312179	103	99
Blank	104	103
LCS	102	106
LCSD	102	108
MS	91	94
MSD	92	98
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660002A

	Butyraldehyde

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312169	101
6312170	105
6312171	99
6312172	98
6312173	106
6312174	105
6312175	105
6312176	100
6312179	107
Blank	107
LCS	109
MS	99
MSD	107

Limits: 64-126

Analysis Name: 21a Glycols by 8015B
Batch number: 111610017A

Tetramethylene glycol

6312169	69
6312170	84
6312171	76
6312172	71
6312173	80
6312174	90
6312175	79
6312176	80
6312179	82
Blank	95
LCS	110
MS	81
MSD	80

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111610018A

Acetone

6312169	72
6312170	70
6312171	73
6312172	65
6312173	72
6312174	70
6312175	70
6312176	69
6312179	72
Blank	90
LCS	91
MS	74
MSD	71

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111640015A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

	n-Triacontane-d62
6312169	98
6312170	85
6312171	102
6312172	91
6312173	98
6312174	93
6312175	117
6312176	85
6312179	97
Blank	96
LCS	94
MS	110
MSD	97
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111650002A

	Tetramethylene glycol
6312181	91
6312182	103
Blank	104
LCS	103
LCSD	100
Limits:	77-119

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111650009A

	n-Triacontane-d62
6312181	93
6312182	89
Blank	94
LCS	94
LCSD	94
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111650031A

	Chlorobenzene	Orthoterphenyl
6312181	50	101
6312182	72	98
Blank	70	96
LCS	73	95
LCSD	79	104
Limits:	28-152	52-131

Analysis Name: 19b Alcohols by 8015B
Batch number: 111650033A

	Acetone

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312181	99	
6312182	100	
Blank	94	
LCS	97	
MS	104	
MSD	101	
Limits:	54-147	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111710009A

	Chlorobenzene	Orthoterphenyl
6312171	71	78
6312173	84	89
6312175	58	77
Blank	86	89
LCS	92	94
MS	78	96
MSD	78	90
Limits:	37-125	47-145

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111730006A

	Chlorobenzene	Orthoterphenyl
6312169	75	94
6312170	60	86
6312172	80	99
6312174	58	90
6312176	49	80
6312179	68	95
Blank	89	104
LCS	93	107
MS	78	100
MSD	82	103
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-E/H EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores																						
SL-037-SA5DN-SB-4.5	06.09.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-4.0-5.0	06.09.11	1520	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SB-12.0	06.09.11	1525	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-11.5-12.5	06.09.11	1530	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-4.5	06.09.11	1405	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-4.0-5.0	06.09.11	1410	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-11.0	06.09.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-10.5-11.5	06.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-4.5	06.09.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-4.0-5.0	06.09.11	1135	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-12.0	06.09.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-11.5-12.5	06.09.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-4.5	06.09.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-4.0-5.0	06.09.11	1020	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-10.0	06.09.11	1025	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-10.5-11.5	06.09.11	1039	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA5DN-SB-4.5	06.09.11	0920	SOIL	NONE	4-Encores										X	X											
SL-050-SA5DN-SB-4.0-5.0	06.09.11	0925	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-050-SA5DN-SB-11.2-12.5	06.09.11	0930	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/09/2011 / 1700	Mary Yeh 6/10/11 1000	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Gp# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Colon

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-116-SA8N-SB-4.5	06.09.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA8N-SB-4.0-5.0	06.09.11	1225	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060911	06.09.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/09/2011 / 1700	6/10/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Cap# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	1-250mL glass				X							
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NaOH	1-500mL poly							X				
EB17-SA8N-SB-060911	06.09.11	1230	WATER	HCL	5-40mL vials	X									X	
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	4-40mL vials			X						X		
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	1-250mL glass				X							
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NaOH	1-500mL poly							X				
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	HCL	5-40mL vials	X									X	
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	4-40mL vials			X						X		

Relinquished by: (*Signature*) — Date/Time: 06/09/2011 / 1700

Received for Laboratory by: (*Signature*) — 6/10/11 1000

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time

Airbill No(s): 8754 3340 0541,0552,0563,0574

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/10/2011
Group Number: 1250866
SDG: DX101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-040-SA5DN-SB-4.0-5.0 Soil	6312189
SL-040-SA5DN-SB-10.5-11.5 Soil	6312190
SL-050-SA5DN-SB-4.0-5.0 Soil	6312191
SL-050-SA5DN-SB-11.2-12.5 Soil	6312192
SL-116-SA8N-SB-4.0-5.0 Soil	6312193

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0599	JBQ	0.0293	1.16	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0306	5.79	1
11031	123478-HxCDD	39227-28-6	0.191	J	0.0437	5.79	1
11031	123678-HxCDD	57653-85-7	1.35	JB	0.0428	5.79	1
11031	123789-HxCDD	19408-74-3	0.759	JB	0.0414	5.79	1
11031	1234678-HpCDD	35822-46-9	64.1	B	0.0835	5.79	1
11031	OCDD	3268-87-9	598	B	0.0796	11.6	1
11031	2378-TCDF	51207-31-9	0.325	J	0.0742	1.16	1
11031	12378-PeCDF	57117-41-6	0.834	JB	0.0343	5.79	1
11031	23478-PeCDF	57117-31-4	0.691	JB	0.0343	5.79	1
11031	123478-HxCDF	70648-26-9	0.459	JB	0.0368	5.79	1
11031	123678-HxCDF	57117-44-9	0.228	JB	0.0332	5.79	1
11031	123789-HxCDF	72918-21-9	0.601	JB	0.0423	5.79	1
11031	234678-HxCDF	60851-34-5	0.191	JB	0.0345	5.79	1
11031	1234678-HpCDF	67562-39-4	1.77	JB	0.0233	5.79	1
11031	1234789-HpCDF	55673-89-7	0.246	JB	0.0338	5.79	1
11031	OCDF	39001-02-0	5.20	JB	0.0405	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-040-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 15:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0273 JBQ	0.0247	1.05	1
11031	12378-PeCDD	40321-76-4	0.0327 JB	0.0236	5.23	1
11031	123478-HxCDD	39227-28-6	0.0286 J	0.0277	5.23	1
11031	123678-HxCDD	57653-85-7	0.227 JB	0.0270	5.23	1
11031	123789-HxCDD	19408-74-3	0.123 JBQ	0.0280	5.23	1
11031	1234678-HpCDD	35822-46-9	14.7 B	0.0490	5.23	1
11031	OCDD	3268-87-9	165 B	0.0535	10.5	1
11031	2378-TCDF	51207-31-9	0.0279 U	0.0279	1.05	1
11031	12378-PeCDF	57117-41-6	0.0127 U	0.0127	5.23	1
11031	23478-PeCDF	57117-31-4	0.0287 JB	0.0130	5.23	1
11031	123478-HxCDF	70648-26-9	0.0433 JB	0.0171	5.23	1
11031	123678-HxCDF	57117-44-9	0.0171 JB	0.0147	5.23	1
11031	123789-HxCDF	72918-21-9	0.0760 JBQ	0.0207	5.23	1
11031	234678-HxCDF	60851-34-5	0.0459 JB	0.0164	5.23	1
11031	1234678-HpCDF	67562-39-4	0.424 JB	0.0148	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0853 JB	0.0252	5.23	1
11031	OCDF	39001-02-0	1.12 JB	0.0394	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 16:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0318 U	0.0318	1.13	1
11031	12378-PeCDD	40321-76-4	0.0453 JBQ	0.0272	5.66	1
11031	123478-HxCDD	39227-28-6	0.0409 J	0.0234	5.66	1
11031	123678-HxCDD	57653-85-7	0.160 JB	0.0237	5.66	1
11031	123789-HxCDD	19408-74-3	0.312 JB	0.0238	5.66	1
11031	1234678-HpCDD	35822-46-9	0.786 JB	0.0417	5.66	1
11031	OCDD	3268-87-9	5.42 JB	0.0285	11.3	1
11031	2378-TCDF	51207-31-9	0.0286 U	0.0286	1.13	1
11031	12378-PeCDF	57117-41-6	0.0988 JBQ	0.0143	5.66	1
11031	23478-PeCDF	57117-31-4	0.0612 JBQ	0.0149	5.66	1
11031	123478-HxCDF	70648-26-9	0.0310 JB	0.0178	5.66	1
11031	123678-HxCDF	57117-44-9	0.0286 JBQ	0.0147	5.66	1
11031	123789-HxCDF	72918-21-9	0.333 JB	0.0198	5.66	1
11031	234678-HxCDF	60851-34-5	0.0535 JBQ	0.0167	5.66	1
11031	1234678-HpCDF	67562-39-4	0.122 JB	0.00983	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0627 JBQ	0.0179	5.66	1
11031	OCDF	39001-02-0	0.270 JB	0.0467	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 17:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263 U	0.0263	1.11	1
11031	12378-PeCDD	40321-76-4	0.0237 U	0.0237	5.55	1
11031	123478-HxCDD	39227-28-6	0.0254 JQ	0.0193	5.55	1
11031	123678-HxCDD	57653-85-7	0.0501 JBQ	0.0194	5.55	1
11031	123789-HxCDD	19408-74-3	0.0401 JBQ	0.0188	5.55	1
11031	1234678-HpCDD	35822-46-9	0.626 JB	0.0322	5.55	1
11031	OCDD	3268-87-9	3.92 JB	0.0216	11.1	1
11031	2378-TCDF	51207-31-9	0.0233 U	0.0233	1.11	1
11031	12378-PeCDF	57117-41-6	0.0193 JBQ	0.0109	5.55	1
11031	23478-PeCDF	57117-31-4	0.0408 JBQ	0.0115	5.55	1
11031	123478-HxCDF	70648-26-9	0.0194 JB	0.0120	5.55	1
11031	123678-HxCDF	57117-44-9	0.0182 JBQ	0.0102	5.55	1
11031	123789-HxCDF	72918-21-9	0.0129 U	0.0129	5.55	1
11031	234678-HxCDF	60851-34-5	0.0476 JBQ	0.0111	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0890 JB	0.00780	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0270 JBQ	0.0136	5.55	1
11031	OCDF	39001-02-0	0.171 JB	0.0321	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 17:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0294	U	0.0294	1.15	1
11031	12378-PeCDD	40321-76-4	0.0266	U	0.0266	5.77	1
11031	123478-HxCDD	39227-28-6	0.0311	J	0.0247	5.77	1
11031	123678-HxCDD	57653-85-7	0.124	JBQ	0.0247	5.77	1
11031	123789-HxCDD	19408-74-3	0.155	JB	0.0258	5.77	1
11031	1234678-HpCDD	35822-46-9	2.49	JB	0.0421	5.77	1
11031	OCDD	3268-87-9	17.4	B	0.0291	11.5	1
11031	2378-TCDF	51207-31-9	0.0658	J	0.0490	1.15	1
11031	12378-PeCDF	57117-41-6	0.148	JBQ	0.0208	5.77	1
11031	23478-PeCDF	57117-31-4	0.133	JB	0.0216	5.77	1
11031	123478-HxCDF	70648-26-9	0.120	JB	0.0218	5.77	1
11031	123678-HxCDF	57117-44-9	0.0500	JB	0.0173	5.77	1
11031	123789-HxCDF	72918-21-9	0.146	JBQ	0.0265	5.77	1
11031	234678-HxCDF	60851-34-5	0.102	JBQ	0.0196	5.77	1
11031	1234678-HpCDF	67562-39-4	0.245	JB	0.0133	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0415	JBQ	0.0255	5.77	1
11031	OCDF	39001-02-0	0.475	JB	0.0444	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 18:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250866
Reported: 07/12/11 at 09:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165162401B	Sample number(s): 6312191-6312192								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404A	Sample number(s): 6312189								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404B	Sample number(s): 6312190,6312193								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11189001	Sample number(s): 6312189-6312193								
2378-TCDD	0.0484 J	0.0301	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0813 J	0.0259	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0201 U	0.0201	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0652 J	0.0198	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0708 J	0.0192	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.430 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	1.02 J	0.0189	10.0	ng/kg	92		78-144		
2378-TCDF	0.0249 U	0.0249	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0348 J	0.0107	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0794 J	0.0117	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0625 J	0.0163	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0628 J	0.0125	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0946 J	0.0175	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0912 J	0.0141	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.145 J	0.0105	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0985 J	0.0187	5.00	ng/kg	93		78-138		
OCDF	0.388 J	0.0375	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165162401B	Sample number(s): 6312191-6312192					BKG: P312177			
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11174162404A	Sample number(s): 6312189					BKG: P312175			
Moisture Content by 160.3						14.1	14.5	3	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250866
Reported: 07/12/11 at 09:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162404B	Sample number(s): 6312190,6312193					BKG: P318825			
Moisture Content by 160.3						14.0	14.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11189001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6312189	75	75	67	74	69	67
6312190	73	70	69	78	71	68
6312191	70	65	60	70	61	61
6312192	73	73	70	80	72	71
6312193	69	68	66	80	69	61
Blank	67	69	65	81	71	66
OPR	67	67	61	77	64	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6312189	77	65	63	76	76	79
6312190	92	63	61	75	80	83
6312191	82	53	50	76	74	76
6312192	91	67	64	77	80	82
6312193	94	61	63	75	83	85
Blank	89	63	60	74	80	83
OPR	93	54	54	74	77	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6312189	77	76	74	75	80
6312190	78	83	80	68	78
6312191	73	74	69	64	74
6312192	82	85	81	72	82
6312193	80	84	85	64	76
Blank	82	83	79	64	83
OPR	78	83	80	61	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250866 Sample# 6312189-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-037-SA5DN-SB-4.5	06.09.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-4.0-5.0	06.09.11	1520	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SB-12.0	06.09.11	1525	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-11.5-12.5	06.09.11	1530	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-4.5	06.09.11	1405	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-4.0-5.0	06.09.11	1410	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-12.0	06.09.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-11.5-12.5	06.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-4.5	06.09.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-4.0-5.0	06.09.11	1135	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-12.0	06.09.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-11.5-12.5	06.09.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-4.5	06.09.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-4.0-5.0	06.09.11	1020	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-12.0	06.09.11	1025	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-11.5-12.5	06.09.11	1030	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA5DN-SB-4.5	06.09.11	0920	SOIL	NONE	4-Encores										X	X											
SL-050-SA5DN-SB-4.0-5.0	06.09.11	0925	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-050-SA5DN-SB-11.2-12.5	06.09.11	0930	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	06/09/2011 / 1700	Mary Mark 6/10/11 1000	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Qp# 1250866 Sample# 6312189-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 15 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Cotton

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-116-SA8N-SB-4.5	06.09.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA8N-SB-4.0-5.0	06.09.11	1225	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060911	06.09.11	0900	WATER	*HCl	4-40 mL VOA VIALS										X	X	X										FIELD BLANK

Relinquished by: (Signature) — Date/Time: 06/09/2011 / 1700

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) Nancy Hecht 6/10/11 1000

Airbill No.(s): 8754 3340 0541,0552,0563,0574

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/11/2011
Group Number: 1251033
SDG: DE178
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5DN-SB-4.0-5.0 Soil	6313367
SL-041-SA5DN-SB-9.0-10.0 Soil	6313368
SL-045-SA5DN-SB-4.0-5.0 Soil	6313369
SL-045-SA5DN-SB-9.0-10.0 Soil	6313370
SL-048-SA5DN-SB-4.0-5.0 Soil	6313371
SL-048-SA5DN-SB-11.5-12.5 Soil	6313372
SL-049-SA5DN-SB-4.0-5.0 Soil	6313373
SL-049-SA5DN-SB-15.5-16.5 Soil	6313374
SL-111-SA8N-SB-3.0-4.0 Soil	6313375
TB-061011 Water	6313376

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5		0.93
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.93
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.93
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.93
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.93
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.93
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.93
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.93
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.93
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.93
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.93
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.93
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.93
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.93
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.5		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.93
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.93
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.93
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.93
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.93
06192	Methylene Chloride	75-09-2	1.7	J	0.27	4.5		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.93
06192	Toluene	108-88-3	0.11	J	0.09	4.5		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.93
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.93
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.93
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.51	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	4.1		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.91	J	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	6.3		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	2.3		0.79	2.0		1
10138	Pyrene	129-00-0	5.1		0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.2		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	2.9		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.95	U	0.95	2.9		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.95	2.9		2
10199	EFH (C21-C30)	n.a.	24		0.95	2.9		2
10199	EFH (C30 - C40)	n.a.	55		0.95	2.9		2
10199	EFH (C8-C11)	n.a.	0.95	U	0.95	2.9		2

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		7.07	23.4		1
07914	Boron	7440-42-8	6.92		0.421	5.84		1
01650	Calcium	7440-70-2	12,100		2.92	23.4		1
01654	Iron	7439-89-6	33,200		6.10	46.7		2
01656	Lithium	7439-93-2	24.8		0.72	2.3		1
01657	Magnesium	7439-95-4	6,810		0.514	11.7		1
06958	Manganese	7439-96-5	589		0.0421	0.584		1
10145	Phosphorus	7723-14-0	262		0.409	11.7		1
01662	Potassium	7440-09-7	3,730		13.2	58.4		1
01667	Sodium	7440-23-5	308		6.95	117		1
07968	Strontium	7440-24-6	43.7		0.0292	0.584		1
06969	Tin	7440-31-5	2.83	J	0.374	11.7		1
06970	Titanium	7440-32-6	1,050		0.0838	1.18		1
10146	Zirconium	7440-67-7	3.31	J	0.538	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.258		0.0848	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0917	0.458		2
06126	Barium	7440-39-3	159		0.121	0.458		2
06127	Beryllium	7440-41-7	0.861		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.469		0.0504	0.115		2
06131	Chromium	7440-47-3	40.3		0.138	0.458		2
06132	Cobalt	7440-48-4	11.5		0.0229	0.115		2
06133	Copper	7440-50-8	18.4		0.0917	0.458		2
06135	Lead	7439-92-1	18.1		0.0119	0.234		2
06138	Molybdenum	7439-98-7	0.439		0.0573	0.115		2
06139	Nickel	7440-02-0	23.9		0.115	0.458		2
06141	Selenium	7782-49-2	0.216	J	0.0665	0.458		2
06142	Silver	7440-22-4	0.0648	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.510		0.0344	0.115		2
06148	Vanadium	7440-62-2	68.1		0.0252	0.115		2
06149	Zinc	7440-66-6	74.1		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1		0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:58	Angela D Sneeringer	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:15	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:41	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	06/30/2011 23:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 11:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 12:51	Joseph M Gambler	1

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 21:40	Marie D John	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 13:30	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 05:23	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 08:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:37	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 14:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 14:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 14:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 04:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 04:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 14:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:34	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.97
06192	Methylene Chloride	75-09-2	2.4	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.11	J	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.2		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample surrogate data is outside the QC limits. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,900		6.55	21.7		1
07914	Boron	7440-42-8	5.63		0.390	5.41		1
01650	Calcium	7440-70-2	10,100		2.71	21.7		1
01654	Iron	7439-89-6	27,500		2.83	21.7		1
01656	Lithium	7439-93-2	22.6		0.67	2.2		1
01657	Magnesium	7439-95-4	5,890		0.476	10.8		1
06958	Manganese	7439-96-5	237		0.0390	0.541		1
10145	Phosphorus	7723-14-0	215		0.379	10.8		1
01662	Potassium	7440-09-7	2,920		12.2	54.1		1
01667	Sodium	7440-23-5	335		6.44	108		1
07968	Strontium	7440-24-6	36.3		0.0271	0.541		1
06969	Tin	7440-31-5	2.54	J	0.347	10.8		1
06970	Titanium	7440-32-6	370		0.0769	1.08		1
10146	Zirconium	7440-67-7	3.96	J	0.498	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.91		0.0875	0.437		2
06126	Barium	7440-39-3	37.5		0.116	0.437		2
06127	Beryllium	7440-41-7	0.228		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0853	J	0.0481	0.109		2
06131	Chromium	7440-47-3	15.2		0.131	0.437		2
06132	Cobalt	7440-48-4	3.15		0.0219	0.109		2
06133	Copper	7440-50-8	4.66		0.0875	0.437		2
06135	Lead	7439-92-1	3.15		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.585		0.0547	0.109		2
06139	Nickel	7440-02-0	7.91		0.109	0.437		2
06141	Selenium	7782-49-2	0.0634	U	0.0634	0.437		2
06142	Silver	7440-22-4	0.0155	U	0.0155	0.109		2
06145	Thallium	7440-28-0	0.0669	J	0.0328	0.109		2
06148	Vanadium	7440-62-2	19.7		0.0241	0.109		2
06149	Zinc	7440-66-6	18.6		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 08:20	Angela D Sneeringer	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:35	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/08/2011 14:31	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 12:26	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 13:23	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 22:16	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 14:13	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:15	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 02:02	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 01:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 15:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:50	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.86
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.09	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	80.4		19.6	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

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Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

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Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
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Project Name: SSFL Area IV Collocated Soil Sampling

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17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	4.4		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	12		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
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Project Name: SSFL Area IV Collocated Soil Sampling

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17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		7.14	23.6		1
07914	Boron	7440-42-8	6.50		0.425	5.90		1
01650	Calcium	7440-70-2	7,510		2.95	23.6		1
01654	Iron	7439-89-6	33,000		6.16	47.2		2
01656	Lithium	7439-93-2	27.3		0.73	2.4		1
01657	Magnesium	7439-95-4	6,920		0.519	11.8		1
06958	Manganese	7439-96-5	230		0.0425	0.590		1
10145	Phosphorus	7723-14-0	221		0.413	11.8		1
01662	Potassium	7440-09-7	3,510		13.3	59.0		1
01667	Sodium	7440-23-5	603		7.02	118		1
07968	Strontium	7440-24-6	43.0		0.0295	0.590		1
06969	Tin	7440-31-5	2.77	J	0.378	11.8		1
06970	Titanium	7440-32-6	1,270		0.0814	1.15		1
10146	Zirconium	7440-67-7	4.47	J	0.543	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.332		0.0865	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.53		0.0935	0.468		2
06126	Barium	7440-39-3	154		0.124	0.468		2
06127	Beryllium	7440-41-7	1.06		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.158		0.0514	0.117		2
06131	Chromium	7440-47-3	39.7		0.140	0.468		2
06132	Cobalt	7440-48-4	11.1		0.0234	0.117		2
06133	Copper	7440-50-8	20.2		0.0935	0.468		2
06135	Lead	7439-92-1	13.0		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.432		0.0584	0.117		2
06139	Nickel	7440-02-0	23.7		0.117	0.468		2
06141	Selenium	7782-49-2	0.0776	J	0.0678	0.468		2
06142	Silver	7440-22-4	0.0746	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.412		0.0351	0.117		2
06148	Vanadium	7440-62-2	67.6		0.0257	0.117		2
06149	Zinc	7440-66-6	75.6		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
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SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 08:42	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:55	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 00:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 12:53	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 13:55	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 22:53	Marie D John	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 14:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:24	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 02:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 00:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	111685708002	06/23/2011 03:41	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2

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Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 16:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:51	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:51	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.9	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	2.2	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.7		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		6.69	22.1		1
07914	Boron	7440-42-8	4.71	J	0.398	5.53		1
01650	Calcium	7440-70-2	9,870		2.77	22.1		1
01654	Iron	7439-89-6	27,200		2.89	22.1		1
01656	Lithium	7439-93-2	23.8		0.69	2.2		1
01657	Magnesium	7439-95-4	5,610		0.487	11.1		1
06958	Manganese	7439-96-5	212		0.0398	0.553		1
10145	Phosphorus	7723-14-0	269		0.387	11.1		1
01662	Potassium	7440-09-7	3,060		12.5	55.3		1
01667	Sodium	7440-23-5	576		6.58	111		1
07968	Strontium	7440-24-6	37.3		0.0277	0.553		1
06969	Tin	7440-31-5	2.51	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,180		0.0793	1.12		1
10146	Zirconium	7440-67-7	4.74	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.369		0.0843	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.61		0.0911	0.456		2
06126	Barium	7440-39-3	153		0.121	0.456		2
06127	Beryllium	7440-41-7	1.31		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.273		0.0501	0.114		2
06131	Chromium	7440-47-3	45.7		0.137	0.456		2
06132	Cobalt	7440-48-4	10.7		0.0228	0.114		2
06133	Copper	7440-50-8	21.2		0.0911	0.456		2
06135	Lead	7439-92-1	11.7		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.639		0.0570	0.114		2
06139	Nickel	7440-02-0	33.6		0.114	0.456		2
06141	Selenium	7782-49-2	0.0661	U	0.0661	0.456		2
06142	Silver	7440-22-4	0.0411	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.471		0.0342	0.114		2
06148	Vanadium	7440-62-2	84.8		0.0251	0.114		2
06149	Zinc	7440-66-6	86.7		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.4		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:04	Angela D Sneeringer	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:15	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 01:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 13:19	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 14:27	Joseph M Gambler	1

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17804 SDG#: DE178-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 23:29	Marie D John	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:49	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 15:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 00:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 07:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 16:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 19:03	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:52	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.91
06192	Methylene Chloride	75-09-2	1.7	J	0.26	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.10	J	0.09	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		6.98	23.1		1
07914	Boron	7440-42-8	9.27		0.415	5.77		1
01650	Calcium	7440-70-2	7,400		2.88	23.1		1
01654	Iron	7439-89-6	37,000		6.02	46.2		2
01656	Lithium	7439-93-2	29.5		0.72	2.3		1
01657	Magnesium	7439-95-4	8,640		0.508	11.5		1
06958	Manganese	7439-96-5	392		0.0415	0.577		1
10145	Phosphorus	7723-14-0	430		0.404	11.5		1
01662	Potassium	7440-09-7	3,590		13.0	57.7		1
01667	Sodium	7440-23-5	745		6.87	115		1
07968	Strontium	7440-24-6	47.1		0.0288	0.577		1
06969	Tin	7440-31-5	2.75	J	0.369	11.5		1
06970	Titanium	7440-32-6	568		0.0819	1.15		1
10146	Zirconium	7440-67-7	5.92		0.531	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.353		0.0846	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.92		0.0914	0.457		2
06126	Barium	7440-39-3	177		0.121	0.457		2
06127	Beryllium	7440-41-7	1.11		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.355		0.0503	0.114		2
06131	Chromium	7440-47-3	40.7		0.137	0.457		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	14.0	0.0229	0.114		2
06133	Copper	7440-50-8	22.6	0.0914	0.457		2
06135	Lead	7439-92-1	13.2	0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.467	0.0571	0.114		2
06139	Nickel	7440-02-0	28.8	0.114	0.457		2
06141	Selenium	7782-49-2	0.0688 J	0.0663	0.457		2
06142	Silver	7440-22-4	0.0609 J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.425	0.0343	0.114		2
06148	Vanadium	7440-62-2	72.4	0.0251	0.114		2
06149	Zinc	7440-66-6	93.6	0.640	3.43		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	24.2	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-048-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:27	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:34	Jason M Long	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:52	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 13:46	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 14:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:44	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 09:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 17:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 19:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.47	21.4		1
07914	Boron	7440-42-8	2.21	J	0.385	5.34		1
01650	Calcium	7440-70-2	6,950		2.67	21.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,300		2.79	21.4		1
01656	Lithium	7439-93-2	21.8		0.66	2.1		1
01657	Magnesium	7439-95-4	4,090		0.470	10.7		1
06958	Manganese	7439-96-5	357		0.0385	0.534		1
10145	Phosphorus	7723-14-0	166		0.374	10.7		1
01662	Potassium	7440-09-7	1,680		12.1	53.4		1
01667	Sodium	7440-23-5	383		6.36	107		1
07968	Strontium	7440-24-6	22.7		0.0267	0.534		1
06969	Tin	7440-31-5	2.57	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,180		0.398	5.61		5
10146	Zirconium	7440-67-7	3.44	J	0.492	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0806	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0872	0.436		2
06126	Barium	7440-39-3	119		0.116	0.436		2
06127	Beryllium	7440-41-7	0.897		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0972	J	0.0479	0.109		2
06131	Chromium	7440-47-3	27.4		0.131	0.436		2
06132	Cobalt	7440-48-4	6.25		0.0218	0.109		2
06133	Copper	7440-50-8	12.4		0.0872	0.436		2
06135	Lead	7439-92-1	4.98		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.481		0.0545	0.109		2
06139	Nickel	7440-02-0	18.3		0.109	0.436		2
06141	Selenium	7782-49-2	0.0659	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0469	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.345		0.0327	0.109		2
06148	Vanadium	7440-62-2	50.6		0.0240	0.109		2
06149	Zinc	7440-66-6	51.7		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.5		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.37	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 18:38	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 15:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/24/2011 03:02	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 09:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 17:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 19:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.87
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

*=This limit was used in the evaluation of the final result
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Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.87
06192	Toluene	108-88-3	0.15	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

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SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	12	J	7.1	21		1
10138	Chrysene	218-01-9	1.8	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.8		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.80	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.79	2.0		1
10138	Pyrene	129-00-0	2.1		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.7	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,800		6.96	23.0		1
07914	Boron	7440-42-8	6.22		0.414	5.75		1
01650	Calcium	7440-70-2	8,600		2.88	23.0		1
01654	Iron	7439-89-6	39,800		6.00	46.0		2
01656	Lithium	7439-93-2	26.2		0.71	2.3		1
01657	Magnesium	7439-95-4	7,730		0.506	11.5		1
06958	Manganese	7439-96-5	493		0.0414	0.575		1
10145	Phosphorus	7723-14-0	275		0.403	11.5		1
01662	Potassium	7440-09-7	3,730		13.0	57.5		1
01667	Sodium	7440-23-5	663		6.84	115		1
07968	Strontium	7440-24-6	51.6		0.0288	0.575		1
06969	Tin	7440-31-5	2.56	J	0.368	11.5		1
06970	Titanium	7440-32-6	881		0.0801	1.13		1
10146	Zirconium	7440-67-7	3.91	J	0.529	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.380		0.0851	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.43		0.0920	0.460		2
06126	Barium	7440-39-3	201		0.305	1.15		5
06127	Beryllium	7440-41-7	1.18		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.433		0.0506	0.115		2
06131	Chromium	7440-47-3	44.9		0.138	0.460		2

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SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
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17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	16.2	0.0230	0.115		2
06133	Copper	7440-50-8	23.4	0.0920	0.460		2
06135	Lead	7439-92-1	15.7	0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.568	0.0575	0.115		2
06139	Nickel	7440-02-0	31.3	0.115	0.460		2
06141	Selenium	7782-49-2	0.174 J	0.0667	0.460		2
06142	Silver	7440-22-4	0.0715 J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.475	0.0345	0.115		2
06148	Vanadium	7440-62-2	81.0	0.0253	0.115		2
06149	Zinc	7440-66-6	99.3	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151 J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	22.9	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
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SL-049-SA5DN-SB-4.0-5.0

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17807 SDG#: DE178-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:49	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:54	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:55	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 19:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 16:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:48	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06126	Barium	SW-846 6020	2	111681026001D	06/23/2011 11:39	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 19:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	2.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.8	21		1
10138	Fluoranthene	206-44-0	3.8		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	2.0		0.76	1.9		1
10138	Pyrene	129-00-0	2.9		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.57	21.7		1
07914	Boron	7440-42-8	3.19	J	0.391	5.43		1

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,760	2.71	21.7		1
01654	Iron	7439-89-6	24,100	2.83	21.7		1
01656	Lithium	7439-93-2	26.2	0.67	2.2		1
01657	Magnesium	7439-95-4	5,130	0.478	10.9		1
06958	Manganese	7439-96-5	169	0.0391	0.543		1
10145	Phosphorus	7723-14-0	272	0.380	10.9		1
01662	Potassium	7440-09-7	2,890	12.3	54.3		1
01667	Sodium	7440-23-5	365	6.46	109		1
07968	Strontium	7440-24-6	29.3	0.0271	0.543		1
06969	Tin	7440-31-5	2.47 J	0.348	10.9		1
06970	Titanium	7440-32-6	1,150	0.0810	1.14		1
10146	Zirconium	7440-67-7	3.85 J	0.500	5.43		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256	0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.82	0.0903	0.452		2
06126	Barium	7440-39-3	72.5	0.120	0.452		2
06127	Beryllium	7440-41-7	0.793	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.231	0.0497	0.113		2
06131	Chromium	7440-47-3	27.6	0.135	0.452		2
06132	Cobalt	7440-48-4	10.2	0.0226	0.113		2
06133	Copper	7440-50-8	15.5	0.0903	0.452		2
06135	Lead	7439-92-1	9.00	0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.600	0.0564	0.113		2
06139	Nickel	7440-02-0	23.9	0.113	0.452		2
06141	Selenium	7782-49-2	0.0655 U	0.0655	0.452		2
06142	Silver	7440-22-4	0.0361 J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.307	0.0339	0.113		2
06148	Vanadium	7440-62-2	56.5	0.0248	0.113		2
06149	Zinc	7440-66-6	62.9	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0422 J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.6	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011	19:30	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011	20:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011	14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011	21:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011	18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011	19:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011	10:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 20:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.23
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

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14420 Albemarle Point Place
Suite 210
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17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.8		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.1		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.50	21.5		1
07914	Boron	7440-42-8	1.94	J	0.387	5.37		1
01650	Calcium	7440-70-2	2,090		2.68	21.5		1
01654	Iron	7439-89-6	18,300		2.80	21.5		1
01656	Lithium	7439-93-2	19.5		0.67	2.1		1
01657	Magnesium	7439-95-4	3,370		0.472	10.7		1
06958	Manganese	7439-96-5	115		0.0387	0.537		1
10145	Phosphorus	7723-14-0	250		0.376	10.7		1
01662	Potassium	7440-09-7	1,960		12.1	53.7		1
01667	Sodium	7440-23-5	81.9	J	6.39	107		1
07968	Strontium	7440-24-6	18.7		0.0268	0.537		1
06969	Tin	7440-31-5	2.50	J	0.344	10.7		1
06970	Titanium	7440-32-6	873		0.0755	1.06		1
10146	Zirconium	7440-67-7	1.55	J	0.494	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.69		0.0851	0.425		2
06126	Barium	7440-39-3	75.2		0.113	0.425		2
06127	Beryllium	7440-41-7	0.522		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0584	J	0.0468	0.106		2
06131	Chromium	7440-47-3	16.9		0.128	0.425		2
06132	Cobalt	7440-48-4	3.72		0.0213	0.106		2
06133	Copper	7440-50-8	6.05		0.0851	0.425		2
06135	Lead	7439-92-1	5.90		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.485		0.0532	0.106		2
06139	Nickel	7440-02-0	8.58		0.106	0.425		2
06141	Selenium	7782-49-2	0.175	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0400	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.222		0.0319	0.106		2
06148	Vanadium	7440-62-2	31.2		0.0234	0.106		2
06149	Zinc	7440-66-6	41.4		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0125	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-111-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 10:46	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 21:13	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 01:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 19:57	Dale R Stoneroad	1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17809 SDG#: DE178-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 20:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/15/2011 00:05	Marie D John	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 16:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:43	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 21:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 00:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 19:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 01:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 11:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 11:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 11:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 10:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 20:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-061011 Water
SSFL Area IV Collocated Soil Sampling
TB-061011

LLI Sample # WW 6313376
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 08:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17810 SDG#: DE178-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-061011 Water
SSFL Area IV Collocated Soil Sampling
TB-061011

LLI Sample # WW 6313376
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 08:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17810 SDG#: DE178-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 17:39	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111641AA	06/13/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111641AA	06/13/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 17:39	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11172B20A	06/22/2011 20:43	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11172B20A	06/22/2011 20:43	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111661AA	Sample number(s): 6313367-6313371,6313373,6313375									
Acetone	9.0		6.7	8.0	ug/kg	117	124	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	107	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	101	103	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	83	86	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	113	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	91	72-120	11	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	93	75-120	8	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	91	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	108	107	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	102	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	89	94	43-146	6	30
Chloroform	0.12	U	0.12	4.0	ug/kg	109	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	92	96	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	69	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	112	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	103	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	105	106	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	100	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	97	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	98	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	108	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	115	115	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	109	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	102	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	101	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	108	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	110	112	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	99	100	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	102	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	101	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	69	57-120	27	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	107	114	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	92	75-120	8	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	112	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	118	61-134	6	30
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	128*	125*	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103	99	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	103	101	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100	105	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	99	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	87	64-120	10	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89	81	68-120	9	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	103	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	106	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95	94	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	107	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	98	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	100	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	93	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	102	80-120	2	30
Batch number: E111641AA	Sample number(s): 6313376									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	80-123	7	30
Batch number: E111642AA	Sample number(s): 6313367-6313371,6313373,6313375									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6313376									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11171SLA026	Sample number(s): 6313367-6313375									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	86		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11171SLB026	Sample number(s): 6313367-6313375									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	75		15-121		
Benzoic acid	170 U		170.	500	ug/kg	98		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	81		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	73		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170		170.	500	ug/kg	81		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	U 17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170		170.	500	ug/kg	80		51-117		
Phenol	U 17	U	17.	170	ug/kg	91		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11171SLF026	Sample number(s): 6313367-6313370,6313375									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	94		70-130		
Batch number: 11165A34A	Sample number(s): 6313367-6313370,6313375									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11172B20A	Sample number(s): 6313376									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111640008A	Sample number(s): 6313367-6313370,6313375									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	101	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	102	100	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
HMX	100		100.	300	ug/kg	103		74-130		
Nitrobenzene	U 40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	88		80-120		
2-Nitrotoluene	U 80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	120		73-127		
4-Nitrotoluene	U 80	U	80.	120	ug/kg	112		80-120		
PETN	800		800.	2,400	ug/kg	123*		80-120		
RDX	U 50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
Batch number: 111660002A	Sample number(s): 6313367-6313370,6313375									
25a Formaldehyde 8315A	600		600.	1,500	ug/kg	96		80-126		
Batch number: 111660019A	U Sample number(s): 6313368									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111670028A	Sample number(s): 6313367-6313375									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	81	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111710009A	Sample number(s): 6313367-6313370,6313375									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	94		69-132		
EFH (C30 - C40)	2.2		0.40	1.2	mg/kg	91		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 111650003A	Sample number(s): 6313367-6313370,6313375									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Batch number: 111650034A	Sample number(s): 6313367-6313370,6313375									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111660005A	Sample number(s): 6313367-6313370,6313375									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 111681026001A	Sample number(s): 6313367-6313375									
Antimony	0.0740	U	0.0740	0.200	mg/kg	137		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	107		81-112		
Batch number: 111681026001B	Sample number(s): 6313367-6313375									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		83-111		
Batch number: 111681026001C	Sample number(s): 6313367-6313375									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	121		78-122		
Batch number: 111681026001D	Sample number(s): 6313367-6313375									
Barium	0.106	U	0.106	0.400	mg/kg	105		81-111		
Batch number: 111685708002	Sample number(s): 6313367-6313375									
Aluminum	5.85	J	5.76	19.0	mg/kg	90		61-110		
Boron	0.868	J	0.343	4.76	mg/kg	91		78-110		
Calcium	14.7	J	2.38	19.0	mg/kg	98		88-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	3.86	J	2.49	19.0	mg/kg	84		61-110		
Lithium	0.59	U	0.59	1.9	mg/kg	97		80-120		
Magnesium	0.630	J	0.419	9.52	mg/kg	94		82-110		
Manganese	0.0343	U	0.0343	0.476	mg/kg	94		89-112		
Phosphorus	1.54	J	0.333	9.52	mg/kg	99		80-120		
Potassium	10.8	U	10.8	47.6	mg/kg	96		78-110		
Sodium	5.67	U	5.67	95.2	mg/kg	94		87-110		
Strontium	0.0819	J	0.0238	0.476	mg/kg	94		86-110		
Tin	1.52	J	0.305	9.52	mg/kg	94		90-114		
Zirconium	0.438	U	0.438	4.76	mg/kg	96		80-120		
Batch number: 111685711003	Sample number(s): 6313367-6313375									
Mercury	0.0065	U	0.0065	0.0923	mg/kg	107		88-123		
Batch number: 111725708005	Sample number(s): 6313367-6313375									
Titanium	0.0710	U	0.0710	1.00	mg/kg	85		80-120		
Batch number: 111731026001A	Sample number(s): 6313367-6313375									
Lead	0.0102	U	0.0102	0.200	mg/kg	97		83-110		
Batch number: 11166243201A	Sample number(s): 6313367-6313375									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11168102201B	Sample number(s): 6313367-6313370,6313375									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11172621202A	Sample number(s): 6313367-6313375									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11174621201A	Sample number(s): 6313367-6313375									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11167039401A	Sample number(s): 6313367-6313370									
18a pH by 9045C						100		95-105		
Batch number: 11167039401B	Sample number(s): 6313371-6313375									
18a pH by 9045C						100		95-105		
Batch number: 11166162401B	Sample number(s): 6313371-6313374									
Moisture Content by 160.3						100		80-120		
Batch number: 11174162403B	Sample number(s): 6313367-6313370,6313375									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11171SLA026	Sample number(s): 6313367-6313375 UNSPK: P315633								
Acenaphthene	81	80	63-105	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	77	76	67-114	1	30				
Anthracene	88	85	60-122	3	30				
Benzo(a)anthracene	94	93	59-128	2	30				
Benzo(a)pyrene	92	91	45-138	1	30				
Benzo(b)fluoranthene	94	95	43-155	1	30				
Benzo(g,h,i)perylene	89	88	33-141	2	30				
Benzo(k)fluoranthene	94	91	42-144	3	30				
Butylbenzylphthalate	87	88	57-173	1	30				
Di-n-butylphthalate	92	89	65-148	2	30				
Chrysene	90	89	48-134	2	30				
Dibenz(a,h)anthracene	96	101	22-133	4	30				
Diethylphthalate	92	90	70-136	2	30				
Dimethylphthalate	85	84	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	114	108	39-167	6	30				
Fluoranthene	98	95	26-166	3	30				
Fluorene	82	81	66-122	1	30				
Indeno(1,2,3-cd)pyrene	105	102	21-143	3	30				
1-Methylnaphthalene	90	88	72-123	1	30				
2-Methylnaphthalene	81	79	64-103	2	30				
Naphthalene	81	83	61-102	3	30				
N-Nitrosodimethylamine	86	87	48-113	1	30				
Di-n-octylphthalate	101	99	40-192	2	30				
Phenanthrene	85	83	12-165	2	30				
Pyrene	80	80	15-153	1	30				
Batch number: 11171SLB026	Sample number(s): 6313367-6313375 UNSPK: 6313367								
Aniline	72	58	35-95	20	30				
Benzidine	55	41	35-141	29	30				
Benzoic acid	76	74	10-173	2	30				
Benzyl alcohol	90	89	67-115	1	30				
4-Bromophenyl-phenylether	88	93	67-129	6	30				
Carbazole	87	91	64-120	4	30				
4-Chloro-3-methylphenol	91	89	76-110	3	30				
4-Chloroaniline	66	38	23-95	54*	30				
bis(2-Chloroethoxy)methane	89	89	75-104	1	30				
bis(2-Chloroethyl)ether	87	88	60-116	1	30				
bis(2-Chloroisopropyl)ether	82	84	55-142	2	30				
2-Chloronaphthalene	74	99	50-141	29	30				
2-Chlorophenol	89	90	73-121	1	30				
4-Chlorophenyl-phenylether	88	89	80-109	2	30				
Dibenzofuran	91	92	71-112	1	30				
1,2-Dichlorobenzene	78	84	66-108	7	30				
1,3-Dichlorobenzene	75	82	63-109	8	30				
1,4-Dichlorobenzene	76	80	70-100	5	30				
3,3'-Dichlorobenzidine	73	67	16-119	10	30				
2,4-Dichlorophenol	91	92	78-117	2	30				
2,4-Dimethylphenol	93	94	78-110	1	30				
3,5-Dimethylphenol	96	96	70-130	0	30				
4,6-Dinitro-2-methylphenol	72	81	24-116	12	30				
2,4-Dinitrophenol	66	70	20-143	6	30				
2,4-Dinitrotoluene	88	90	73-113	2	30				
2,6-Dinitrotoluene	88	94	69-123	7	30				
1,2-Diphenylhydrazine	98	104	71-129	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Ethylhexyl)phthalate	104	110	63-122	5	30				
Hexachlorobenzene	91	94	77-114	3	30				
Hexachlorobutadiene	82	90	62-120	9	30				
Hexachlorocyclopentadiene	72	79	10-153	9	30				
Hexachloroethane	77	82	57-109	6	30				
Isophorone	89	91	73-102	2	30				
2-Methylphenol	90	87	75-111	3	30				
4-Methylphenol	87	80	71-111	8	30				
2-Nitroaniline	91	94	67-125	4	30				
3-Nitroaniline	86	84	59-122	3	30				
4-Nitroaniline	65	60	52-112	8	30				
Nitrobenzene	87	93	72-106	8	30				
2-Nitrophenol	86	93	74-115	8	30				
4-Nitrophenol	82	86	54-113	4	30				
N-Nitroso-di-n-propylamine	87	85	60-116	3	30				
N-Nitrosodiphenylamine	93	97	86-145	4	30				
Pentachlorophenol	76	84	28-127	11	30				
Phenol	90	87	58-126	4	30				
1,2,4-Trichlorobenzene	87	92	72-115	5	30				
2,4,5-Trichlorophenol	90	92	78-109	1	30				
2,4,6-Trichlorophenol	92	96	77-115	4	30				
Batch number: 11171SLF026	Sample number(s): 6313367-6313370,6313375 UNSPK: 6313367								
N-Nitrosodimethylamine	87	78	70-130	10	30				
Batch number: 111640008A	Sample number(s): 6313367-6313370,6313375 UNSPK: P310775								
4-Amino-2,6-Dinitrotoluene	97	97	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	97	97	80-137	1	50				
1,3-Dinitrobenzene	100	104	38-166	4	50				
2,4-Dinitrotoluene	94	96	80-131	3	50				
2,6-Dinitrotoluene	97	98	80-127	2	50				
HMX	83	81	63-128	2	50				
Nitrobenzene	97	100	80-125	3	50				
Nitroglycerin	82	83	80-120	1	50				
2-Nitrotoluene	93	97	80-122	4	50				
3-Nitrotoluene	99	103	72-119	4	50				
4-Nitrotoluene	93	96	80-125	4	50				
PETN	104	103	80-121	2	50				
RDX	79	82	75-129	3	50				
Tetryl	66	57	55-174	14	50				
1,3,5-Trinitrobenzene	83	76*	82-126	8	50				
2,4,6-Trinitrotoluene	96	97	82-130	0	50				
Batch number: 111660002A	Sample number(s): 6313367-6313370,6313375 UNSPK: P312169								
25a Formaldehyde 8315A	97	97	80-120	2	50				
Batch number: 111660019A	Sample number(s): 6313368 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111670028A	Sample number(s): 6313367-6313375 UNSPK: P315633								
PCB-1016	87	89	29-146	2	50				
PCB-1260	85	95	39-149	10	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111710009A	Sample number(s): 6313367-6313370,6313375 UNSPK: P312169								
EFH (C12-C14)	96	93	49-123	4	20				
EFH (C15-C20)	128*	122	49-123	5	20				
EFH (C21-C30)	201*	131*	49-123	23*	20				
EFH (C30 - C40)	337*	231*	49-123	17	20				
EFH (C8-C11)	99	93	49-123	6	20				
Batch number: 111650003A	Sample number(s): 6313367-6313370,6313375 UNSPK: 6313367								
Diethylene glycol	44*	4*	59-109	11	20				
Ethylene glycol	66	6*	63-107	17	20				
Propylene glycol	72	6*	63-107	19	20				
Batch number: 111650034A	Sample number(s): 6313367-6313370,6313375 UNSPK: P314464								
Ethanol	78	79	48-130	2	20				
Isopropanol	76	78	12-149	2	20				
Methanol	79	82	43-138	3	20				
Batch number: 111660005A	Sample number(s): 6313367-6313370,6313375 UNSPK: P310775								
m-Terphenyl	74*	82	75-125	10	20				
o-Terphenyl	85	93	75-125	9	20				
p-Terphenyl	85	92	75-125	8	20				
Batch number: 111681026001A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Antimony	83	85	75-125	2	20	0.217	0.277	24* (1)	20
Arsenic	104	153*	75-125	13	20	4.78	5.50	14	20
Beryllium	97	133*	75-125	17	20	0.722	0.843	15	20
Cadmium	95	113	75-125	12	20	0.393	0.336	16 (1)	20
Chromium	35*	84	75-125	12	20	33.8	31.4	7	20
Cobalt	108	124	75-125	12	20	9.63	11.3	16	20
Copper	105	143*	75-125	13	20	15.4	16.8	9	20
Nickel	112	153*	75-125	12	20	20.0	22.7	13	20
Silver	106	116	75-125	9	20	0.0543 J	0.0598 J	10 (1)	20
Thallium	90	110	75-125	10	20	0.428	0.392	9 (1)	20
Vanadium	29 (2)	119 (2)	75-125	13	20	57.2	55.1	4	20
Zinc	112 (2)	200 (2)	75-125	11	20	62.2	67.7	9	20
Batch number: 111681026001B	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Selenium	98	112	75-125	12	20	0.181 J	0.145 J	22* (1)	20
Batch number: 111681026001C	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Molybdenum	106	121	75-125	13	20	0.368	0.422	14 (1)	20
Batch number: 111681026001D	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Barium	177 (2)	397 (2)	75-125	13	20	133	149	11	20
Batch number: 111685708002	Sample number(s): 6313367-6313375 UNSPK: P312169 BKG: P312169								
Aluminum	2397 (2)	1692 (2)	75-125	5	20	25,300	20,300	22*	20
Boron	91	92	84-115	1	20	6.68	5.22	25* (1)	20
Calcium	62 (2)	288 (2)	75-125	13	20	5,840	5,720	2	20
Iron	12445 (2)	13631 (2)	75-125	2	20	29,000	31,500	8	20
Lithium	99	100	82-114	1	20	20.3	17.5	15	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	297 (2)	386 (2)	75-125	3	20	5,580	5,050	10	20
Manganese	453 (2)	175 (2)	75-125	26*	20	371	271	31*	20
Phosphorus	108	161*	75-125	14	20	235	217	8	20
Potassium	146*	129*	75-125	4	20	3,370	2,900	15	20
Sodium	93	94	75-125	0	20	269	240	12 (1)	20
Strontium	93	94	75-115	1	20	30.0	26.4	13	20
Tin	84	86	80-110	0	20	2.39 J	2.25 J	6 (1)	20
Zirconium	93	93	75-125	1	20	3.03 J	2.53 J	18 (1)	20
Batch number: 111685711003	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Mercury	84	86	65-135	3	20	0.0068 U	0.0065 U	0 (1)	20
Batch number: 111725708005	Sample number(s): 6313367-6313375 UNSPK: P312170 BKG: P312170								
Titanium	206 (2)	284 (2)	75-125	7	20	985	1,130	14	20
Batch number: 111731026001A	Sample number(s): 6313367-6313375 UNSPK: P312169 BKG: P312169								
Lead	235 (2)	235 (2)	75-125	0	20	8.02	8.29	3	20
Batch number: 11166243201A	Sample number(s): 6313367-6313375 UNSPK: 6313375 BKG: 6313375								
3a Cr VI by EPA 7199	90		75-125			0.56 J	0.83 J	38* (1)	20
Batch number: 11168102201B	Sample number(s): 6313367-6313370,6313375 UNSPK: P312174 BKG: P312174								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11172621202A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
11a Anions by 300.0 - Fluoride	75*		80-120			4.7	4.4	6 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.1 J	1.5	29* (1)	20
Batch number: 11174621201A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11167039401A	Sample number(s): 6313367-6313370 BKG: P312175								
18a pH by 9045C						8.16	8.20	0	3
Batch number: 11167039401B	Sample number(s): 6313371-6313375 BKG: 6313371								
18a pH by 9045C						8.09	8.07	0	3
Batch number: 11166162401B	Sample number(s): 6313371-6313374 BKG: 6313373								
Moisture Content by 160.3						15.6	14.9	5	20
Batch number: 11174162403B	Sample number(s): 6313367-6313370,6313375 BKG: 6313369								
Moisture Content by 160.3						15.3	15.0	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111661AA

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6313367	107	105	98	93
6313368	108	107	99	95
6313369	109	108	98	96
6313370	108	103	99	94
6313371	106	100	100	92
6313373	107	101	100	93
6313375	109	104	98	94
Blank	104	102	100	95
LCS	103	105	103	102
LCSD	103	107	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111641AA

	Toluene-d8
6313376	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6313367	97
6313368	97
6313369	96
6313370	97
6313371	97
6313373	97
6313375	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6313376	104	101	100	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11171SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313367	105	84	84
6313368	97	80	91
6313369	98	80	92
6313370	91	75	86
6313371	81	67	73
6313372	92	76	87
6313373	97	80	78
6313374	96	78	80
6313375	99	79	86
Blank	96	84	100
LCS	103	85	96
MS	99	81	88
MSD	100	81	87
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11171SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6313367	82	86	80	85	91	91
6313368	22*	22*	21*	22*	22*	20*
6313369	77	80	86	84	86	86
6313370	80	81	86	83	88	87
6313371	83	86	80	86	88	83
6313372	81	82	80	84	88	88
6313373	83	85	82	86	92	87
6313374	83	87	85	87	96	91
6313375	81	82	90	84	93	88
Blank	80	83	83	84	90	82
LCS	90	91	92	90	92	90
MS	93	89	91	88	92	92
MSD	88	89	91	91	93	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11171SLF026

	N-Nitrosodimethylamine-d6
6313367	101
6313368	87
6313369	93
6313370	92
6313375	95
Blank	124
LCS	111
MS	95
MSD	94
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313367	78
6313368	81
6313369	75
6313370	74
6313375	76
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11172B20A

Trifluorotoluene-F

6313376	89
Blank	87
LCS	121
LCSD	128
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111640008A

2-Nitro-m-xylene

6313367	111
6313368	109
6313369	118
6313370	116
6313375	113
Blank	114
LCS	122
LCSD	107
MS	106
MSD	111
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660002A

Butyraldehyde

6313367	102
6313368	111
6313369	103
6313370	106
6313375	98
Blank	107
LCS	109
MS	99
MSD	107
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

Batch number: 111670028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6313367	87	91
6313368	95	83
6313369	86	98
6313370	82	95
6313371	79	96
6313372	86	100
6313373	95	106
6313374	91	100
6313375	84	98
Blank	102	105
LCS	105	108
LCSD	98	115
MS	104	96
MSD	101	102
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111650003A

	Tetramethylene glycol
6313367	82
6313368	90
6313369	88
6313370	88
6313375	92
Blank	89
LCS	94
MS	89
MSD	87
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111650034A

	Acetone
6313367	75
6313368	74
6313369	76
6313370	75
6313375	76
Blank	93
LCS	91
MS	77
MSD	80
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111660005A

	n-Triacontane-d62
6313367	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313368	93
6313369	93
6313370	102
6313375	108
Blank	92
LCS	94
MS	90
MSD	86
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111710009A

	Chlorobenzene	Orthoterphenyl
6313367	48	68
6313368	70	87
6313369	66	76
6313370	61	78
6313375	69	82
Blank	86	89
LCS	92	94
MS	78	96
MSD	78	90
Limits:	37-125	47-145

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acct#1303 Cap#1251033 Sample#6313367-76

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5DN-SB-4.5	06.10.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-4.0-5.0	06.10.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SB-9.5	06.10.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-9.0-10.0	06.10.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-4.5	06.10.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-4.0-5.0	06.10.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-9.5	06.10.11	1135	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-9.0-10.0	06.10.11	1140	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-048-SA5DN-SB-4.5	06.10.11	1505	SOIL	NONE	4-Encores										X	X											
SL-048-SA5DN-SB-4.0-5.0	06.10.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-048-SA5DN-SB-11.5-12.5	06.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-4.5	06.10.11	1405	SOIL	NONE	4-Encores										X	X											
SL-049-SA5DN-SB-4.0-5.0	06.10.11	1410	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-15.5-16.5	06.10.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/10/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/11/11 0915	8754 3340 0585,0596	

acct# 13013 Cap# 1251033 Sample# 6313367-76

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Vidal Cortez																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-111-SA8N-SB-3.5	06.10.11	1235	SOIL	NONE	5-Encores										X	X	X										
SL-111-SA8N-SB-3.0-4.0	06.10.11	1240	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-061011	06.10.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 06/10/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 0585,0596																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/11/2011
Group Number: 1251034
SDG: DX101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5DN-SB-4.0-5.0 Soil	6313377
SL-041-SA5DN-SB-9.0-10.0 Soil	6313378
SL-045-SA5DN-SB-4.0-5.0 Soil	6313379
SL-045-SA5DN-SB-9.0-10.0 Soil	6313380
SL-048-SA5DN-SB-4.0-5.0 Soil	6313381
SL-048-SA5DN-SB-11.5-12.5 Soil	6313382
SL-049-SA5DN-SB-4.0-5.0 Soil	6313383
SL-049-SA5DN-SB-15.5-16.5 Soil	6313384
SL-111-SA8N-SB-3.0-4.0 Soil	6313385

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0278	U	0.0278	1.19	1
11031	12378-PeCDD	40321-76-4	0.185	JB	0.0340	5.93	1
11031	123478-HxCDD	39227-28-6	0.173	J	0.0358	5.93	1
11031	123678-HxCDD	57653-85-7	0.686	JB	0.0360	5.93	1
11031	123789-HxCDD	19408-74-3	0.778	JB	0.0369	5.93	1
11031	1234678-HpCDD	35822-46-9	12.5	B	0.0566	5.93	1
11031	OCDD	3268-87-9	157	B	0.0546	11.9	1
11031	2378-TCDF	51207-31-9	0.113	JQ	0.0604	1.19	1
11031	12378-PeCDF	57117-41-6	0.570	JB	0.0309	5.93	1
11031	23478-PeCDF	57117-31-4	0.572	JB	0.0315	5.93	1
11031	123478-HxCDF	70648-26-9	0.257	JB	0.0298	5.93	1
11031	123678-HxCDF	57117-44-9	0.168	JB	0.0259	5.93	1
11031	123789-HxCDF	72918-21-9	0.801	JB	0.0373	5.93	1
11031	234678-HxCDF	60851-34-5	0.174	JB	0.0288	5.93	1
11031	1234678-HpCDF	67562-39-4	0.988	JB	0.0175	5.93	1
11031	1234789-HpCDF	55673-89-7	0.129	JBQ	0.0294	5.93	1
11031	OCDF	39001-02-0	2.66	JB	0.0453	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 19:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0998	JBQ	0.0271	1.10	1
11031	12378-PeCDD	40321-76-4	0.393	JB	0.0298	5.48	1
11031	123478-HxCDD	39227-28-6	0.228	J	0.0327	5.48	1
11031	123678-HxCDD	57653-85-7	0.564	JB	0.0338	5.48	1
11031	123789-HxCDD	19408-74-3	0.324	JB	0.0333	5.48	1
11031	1234678-HpCDD	35822-46-9	26.2	B	0.0666	5.48	1
11031	OCDD	3268-87-9	275	B	0.0712	11.0	1
11031	2378-TCDF	51207-31-9	0.154	J	0.0364	1.10	1
11031	12378-PeCDF	57117-41-6	0.462	JB	0.0186	5.48	1
11031	23478-PeCDF	57117-31-4	0.412	JB	0.0179	5.48	1
11031	123478-HxCDF	70648-26-9	0.283	JB	0.0250	5.48	1
11031	123678-HxCDF	57117-44-9	0.264	JB	0.0221	5.48	1
11031	123789-HxCDF	72918-21-9	0.267	JB	0.0303	5.48	1
11031	234678-HxCDF	60851-34-5	0.228	JB	0.0242	5.48	1
11031	1234678-HpCDF	67562-39-4	0.915	JB	0.0177	5.48	1
11031	1234789-HpCDF	55673-89-7	0.165	JB	0.0314	5.48	1
11031	OCDF	39001-02-0	2.13	JB	0.0358	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 20:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0874	JBQ	0.0288	1.17	1
11031	12378-PeCDD	40321-76-4	0.535	JB	0.0268	5.83	1
11031	123478-HxCDD	39227-28-6	0.324	J	0.0277	5.83	1
11031	123678-HxCDD	57653-85-7	0.329	JB	0.0274	5.83	1
11031	123789-HxCDD	19408-74-3	0.329	JBQ	0.0255	5.83	1
11031	1234678-HpCDD	35822-46-9	0.737	JB	0.0325	5.83	1
11031	OCDD	3268-87-9	2.98	JB	0.0260	11.7	1
11031	2378-TCDF	51207-31-9	0.0636	JQ	0.0303	1.17	1
11031	12378-PeCDF	57117-41-6	0.504	JB	0.0156	5.83	1
11031	23478-PeCDF	57117-31-4	0.541	JB	0.0165	5.83	1
11031	123478-HxCDF	70648-26-9	0.421	JB	0.0222	5.83	1
11031	123678-HxCDF	57117-44-9	0.384	JB	0.0174	5.83	1
11031	123789-HxCDF	72918-21-9	0.343	JBQ	0.0261	5.83	1
11031	234678-HxCDF	60851-34-5	0.313	JB	0.0211	5.83	1
11031	1234678-HpCDF	67562-39-4	0.273	JB	0.0105	5.83	1
11031	1234789-HpCDF	55673-89-7	0.125	JB	0.0197	5.83	1
11031	OCDF	39001-02-0	0.321	JBQ	0.0362	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0458 JBQ	0.0319	1.14	1
11031	12378-PeCDD	40321-76-4	0.105 JB	0.0257	5.70	1
11031	123478-HxCDD	39227-28-6	0.100 JQ	0.0250	5.70	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0245	5.70	1
11031	123789-HxCDD	19408-74-3	0.124 JBQ	0.0237	5.70	1
11031	1234678-HpCDD	35822-46-9	0.854 JB	0.0365	5.70	1
11031	OCDD	3268-87-9	5.29 JB	0.0249	11.4	1
11031	2378-TCDF	51207-31-9	0.0627 J	0.0267	1.14	1
11031	12378-PeCDF	57117-41-6	0.172 JBQ	0.0128	5.70	1
11031	23478-PeCDF	57117-31-4	0.177 JB	0.0135	5.70	1
11031	123478-HxCDF	70648-26-9	0.133 JBQ	0.0184	5.70	1
11031	123678-HxCDF	57117-44-9	0.124 JB	0.0140	5.70	1
11031	123789-HxCDF	72918-21-9	0.0953 JBQ	0.0224	5.70	1
11031	234678-HxCDF	60851-34-5	0.147 JB	0.0166	5.70	1
11031	1234678-HpCDF	67562-39-4	0.206 JB	0.0112	5.70	1
11031	1234789-HpCDF	55673-89-7	0.139 JBQ	0.0213	5.70	1
11031	OCDF	39001-02-0	0.410 JBQ	0.0435	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 01:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0304 U	0.0304	1.16	1
11031	12378-PeCDD	40321-76-4	0.0583 JBQ	0.0267	5.81	1
11031	123478-HxCDD	39227-28-6	0.0421 J	0.0241	5.81	1
11031	123678-HxCDD	57653-85-7	0.187 JBQ	0.0235	5.81	1
11031	123789-HxCDD	19408-74-3	0.284 JB	0.0244	5.81	1
11031	1234678-HpCDD	35822-46-9	1.19 JB	0.0321	5.81	1
11031	OCDD	3268-87-9	7.46 JB	0.0269	11.6	1
11031	2378-TCDF	51207-31-9	0.0275 U	0.0275	1.16	1
11031	12378-PeCDF	57117-41-6	0.0841 JBQ	0.0139	5.81	1
11031	23478-PeCDF	57117-31-4	0.0964 JBQ	0.0142	5.81	1
11031	123478-HxCDF	70648-26-9	0.0760 JB	0.0213	5.81	1
11031	123678-HxCDF	57117-44-9	0.0792 JB	0.0171	5.81	1
11031	123789-HxCDF	72918-21-9	0.390 JBQ	0.0262	5.81	1
11031	234678-HxCDF	60851-34-5	0.0983 JB	0.0189	5.81	1
11031	1234678-HpCDF	67562-39-4	0.250 JB	0.0105	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0985 JBQ	0.0207	5.81	1
11031	OCDF	39001-02-0	0.522 JB	0.0430	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 02:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0277 U	0.0277	1.11	1
11031	12378-PeCDD	40321-76-4	0.0423 JB	0.0268	5.56	1
11031	123478-HxCDD	39227-28-6	0.0208 JQ	0.0189	5.56	1
11031	123678-HxCDD	57653-85-7	0.0428 JB	0.0191	5.56	1
11031	123789-HxCDD	19408-74-3	0.0575 JBQ	0.0185	5.56	1
11031	1234678-HpCDD	35822-46-9	0.473 JBQ	0.0287	5.56	1
11031	OCDD	3268-87-9	0.894 JBQ	0.0245	11.1	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.11	1
11031	12378-PeCDF	57117-41-6	0.0112 U	0.0112	5.56	1
11031	23478-PeCDF	57117-31-4	0.0480 JB	0.0122	5.56	1
11031	123478-HxCDF	70648-26-9	0.0294 JB	0.0125	5.56	1
11031	123678-HxCDF	57117-44-9	0.0186 JBQ	0.0102	5.56	1
11031	123789-HxCDF	72918-21-9	0.0499 JBQ	0.0131	5.56	1
11031	234678-HxCDF	60851-34-5	0.0553 JB	0.0117	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0899 JB	0.00887	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0393 JBQ	0.0174	5.56	1
11031	OCDF	39001-02-0	0.200 JB	0.0380	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5DN-SB-11.5-12.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 03:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0276	U	0.0276	1.18	1
11031	12378-PeCDD	40321-76-4	0.0270	U	0.0270	5.89	1
11031	123478-HxCDD	39227-28-6	0.0376	JQ	0.0245	5.89	1
11031	123678-HxCDD	57653-85-7	0.228	JB	0.0250	5.89	1
11031	123789-HxCDD	19408-74-3	0.418	JB	0.0248	5.89	1
11031	1234678-HpCDD	35822-46-9	0.674	JB	0.0374	5.89	1
11031	OCDD	3268-87-9	3.21	JB	0.0251	11.8	1
11031	2378-TCDF	51207-31-9	0.0250	U	0.0250	1.18	1
11031	12378-PeCDF	57117-41-6	0.0736	JB	0.0134	5.89	1
11031	23478-PeCDF	57117-31-4	0.0580	JB	0.0146	5.89	1
11031	123478-HxCDF	70648-26-9	0.0481	JBQ	0.0179	5.89	1
11031	123678-HxCDF	57117-44-9	0.0368	JBQ	0.0135	5.89	1
11031	123789-HxCDF	72918-21-9	0.517	JB	0.0233	5.89	1
11031	234678-HxCDF	60851-34-5	0.0594	JBQ	0.0171	5.89	1
11031	1234678-HpCDF	67562-39-4	0.133	JB	0.0105	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0464	JB	0.0236	5.89	1
11031	OCDF	39001-02-0	0.212	JBQ	0.0459	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 04:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0296 JBQ	0.0265	1.13	1
11031	12378-PeCDD	40321-76-4	0.0226 U	0.0226	5.66	1
11031	123478-HxCDD	39227-28-6	0.0260 J	0.0190	5.66	1
11031	123678-HxCDD	57653-85-7	0.0529 JBQ	0.0192	5.66	1
11031	123789-HxCDD	19408-74-3	0.0524 JBQ	0.0188	5.66	1
11031	1234678-HpCDD	35822-46-9	0.926 JB	0.0318	5.66	1
11031	OCDD	3268-87-9	8.45 JB	0.0283	11.3	1
11031	2378-TCDF	51207-31-9	0.0231 U	0.0231	1.13	1
11031	12378-PeCDF	57117-41-6	0.0197 JBQ	0.0109	5.66	1
11031	23478-PeCDF	57117-31-4	0.0889 JB	0.0119	5.66	1
11031	123478-HxCDF	70648-26-9	0.0413 JB	0.0149	5.66	1
11031	123678-HxCDF	57117-44-9	0.0362 JBQ	0.0117	5.66	1
11031	123789-HxCDF	72918-21-9	0.0419 JBQ	0.0166	5.66	1
11031	234678-HxCDF	60851-34-5	0.0588 JB	0.0136	5.66	1
11031	1234678-HpCDF	67562-39-4	0.158 JB	0.00946	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0619 JB	0.0194	5.66	1
11031	OCDF	39001-02-0	0.310 JB	0.0383	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 05:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265 U	0.0265	1.06	1
11031	12378-PeCDD	40321-76-4	0.139 JBQ	0.0254	5.29	1
11031	123478-HxCDD	39227-28-6	0.0523 JQ	0.0238	5.29	1
11031	123678-HxCDD	57653-85-7	0.214 JB	0.0240	5.29	1
11031	123789-HxCDD	19408-74-3	0.315 JB	0.0243	5.29	1
11031	1234678-HpCDD	35822-46-9	0.860 JB	0.0352	5.29	1
11031	OCDD	3268-87-9	5.17 JB	0.0241	10.6	1
11031	2378-TCDF	51207-31-9	0.0454 JQ	0.0230	1.06	1
11031	12378-PeCDF	57117-41-6	0.121 JB	0.0124	5.29	1
11031	23478-PeCDF	57117-31-4	0.150 JBQ	0.0130	5.29	1
11031	123478-HxCDF	70648-26-9	0.110 JB	0.0182	5.29	1
11031	123678-HxCDF	57117-44-9	0.0883 JB	0.0141	5.29	1
11031	123789-HxCDF	72918-21-9	0.217 JBQ	0.0216	5.29	1
11031	234678-HxCDF	60851-34-5	0.0818 JB	0.0171	5.29	1
11031	1234678-HpCDF	67562-39-4	0.162 JBQ	0.00975	5.29	1
11031	1234789-HpCDF	55673-89-7	0.0325 JB	0.0195	5.29	1
11031	OCDF	39001-02-0	0.241 JBQ	0.0391	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 06:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251034
Reported: 07/12/11 at 09:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11166162401B	Sample number(s): 6313381-6313384								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6313377-6313380,6313385								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11189001	Sample number(s): 6313377-6313385								
2378-TCDD	0.0484 J	0.0301	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0813 J	0.0259	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0201 U	0.0201	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0652 J	0.0198	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0708 J	0.0192	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.430 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	1.02 J	0.0189	10.0	ng/kg	92		78-144		
2378-TCDF	0.0249 U	0.0249	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0348 J	0.0107	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0794 J	0.0117	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0625 J	0.0163	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0628 J	0.0125	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0946 J	0.0175	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0912 J	0.0141	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.145 J	0.0105	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0985 J	0.0187	5.00	ng/kg	93		78-138		
OCDF	0.388 J	0.0375	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11166162401B	Sample number(s): 6313381-6313384					BKG: P313373			
Moisture Content by 160.3						15.6	14.9	5	20
Batch number: 11174162403B	Sample number(s): 6313377-6313380,6313385					BKG: P313369			
Moisture Content by 160.3						15.3	15.0	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251034
Reported: 07/12/11 at 09:56 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11189001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6313377	77	71	67	75	69	65
6313378	74	71	69	77	70	66
6313379	77	74	70	88	72	69
6313380	70	71	63	82	68	61
6313381	72	72	66	79	70	61
6313382	66	67	64	76	67	68
6313383	74	70	64	83	68	59
6313384	70	69	64	78	67	63
6313385	70	68	63	79	67	63
Blank	67	69	65	81	71	66
OPR	67	67	61	77	64	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6313377	79	59	61	76	78	78
6313378	89	65	65	75	79	81
6313379	98	64	61	84	87	88
6313380	85	55	56	76	80	82
6313381	93	60	58	77	80	84
6313382	89	60	56	71	74	78
6313383	91	55	53	78	81	81
6313384	93	57	54	76	79	81
6313385	90	56	53	76	78	79
Blank	89	63	60	74	80	83
OPR	93	54	54	74	77	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6313377	76	78	76	75	78
6313378	79	83	82	73	79
6313379	88	89	86	70	88
6313380	79	80	77	66	81
6313381	80	83	81	68	81
6313382	77	81	77	64	77
6313383	81	80	77	68	84
6313384	79	81	78	68	81
6313385	77	81	77	68	80
Blank	82	83	79	64	83
OPR	78	83	80	61	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1251034 Sample#6313377-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-041-SA5DN-SB-4.5	06.10.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-4.0-5.0	06.10.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SB-9.5	06.10.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-9.0-10.0	06.10.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-4.5	06.10.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-4.0-5.0	06.10.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-9.5	06.10.11	1135	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-9.0-10.0	06.10.11	1140	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-048-SA5DN-SB-4.5	06.10.11	1505	SOIL	NONE	4-Encores										X	X											
SL-048-SA5DN-SB-4.0-5.0	06.10.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-048-SA5DN-SB-11.5-12.5	06.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-4.5	06.10.11	1405	SOIL	NONE	4-Encores										X	X											
SL-049-SA5DN-SB-4.0-5.0	06.10.11	1410	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-15.5-16.5	06.10.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/10/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/11/11 0715	8754 3340 0585,0596	

acct#13013 Cap#1251034 Sample#6313377-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/8471/7A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Vidal Cortes																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-111-SA8N-SB-3.5	06.10.11	1235	SOIL	NONE	5-Encores										X	X	X										
SL-111-SA8N-SB-3.0-4.0	06.10.11	1240	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-061011	06.10.11	0600	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 06/10/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3340 0585,0596																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/18/2011
Group Number: 1252254
SDG: DX103
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-051-SA8N-SB-7.5-8.5 Soil	6320629

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320629
LLI Group # 1252254
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/15/2011 10:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10317 SDG#: DX103-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320629
LLI Group # 1252254
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/15/2011 10:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10317 SDG#: DX103-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0618	J	0.0279	1.06	1
11031	12378-PeCDD	40321-76-4	0.317	JB	0.0465	5.32	1
11031	123478-HxCDD	39227-28-6	0.170	JQ	0.0378	5.32	1
11031	123678-HxCDD	57653-85-7	1.14	JB	0.0391	5.32	1
11031	123789-HxCDD	19408-74-3	0.812	JB	0.0378	5.32	1
11031	1234678-HpCDD	35822-46-9	12.1	B	0.0572	5.32	1
11031	OCDD	3268-87-9	264	B	0.0706	10.6	1
11031	2378-TCDF	51207-31-9	1.17		0.114	1.06	1
11650	2378-TCDF-Conf	51207-31-9	0.463	J	0.0551	1.06	1
11031	12378-PeCDF	57117-41-6	0.610	JB	0.0404	5.32	1
11031	23478-PeCDF	57117-31-4	0.950	JB	0.0411	5.32	1
11031	123478-HxCDF	70648-26-9	0.770	JB	0.0411	5.32	1
11031	123678-HxCDF	57117-44-9	0.441	JB	0.0326	5.32	1
11031	123789-HxCDF	72918-21-9	0.718	JQ	0.0460	5.32	1
11031	234678-HxCDF	60851-34-5	0.436	JB	0.0348	5.32	1
11031	1234678-HpCDF	67562-39-4	4.15	JB	0.0220	5.32	1
11031	1234789-HpCDF	55673-89-7	0.404	JB	0.0416	5.32	1
11031	OCDF	39001-02-0	8.55	JB	0.0550	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320629
LLI Group # 1252254
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/15/2011 10:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10317 SDG#: DX103-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320629
LLI Group # 1252254
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/15/2011 10:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10317 SDG#: DX103-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 15:38	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11181001	07/07/2011 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252254
Reported: 07/15/11 at 10:13 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11179162401A	Sample number(s): 6320629								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11181001	Sample number(s): 6320629								
2378-TCDD	0.0252 U	0.0252	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0530 J	0.0306	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0280 U	0.0280	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0594 J	0.0289	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0586 J	0.0277	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.484 J	0.0430	5.00	ng/kg	91		70-140		
OCDD	0.797 J	0.0327	10.0	ng/kg	92		78-144		
2378-TCDF	0.0230 U	0.0230	1.00	ng/kg	100		75-158		
2378-TCDF-Conf	0.0300 U	0.0300	1.00	ng/kg					
12378-PeCDF	0.0247 J	0.0122	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0736 J	0.0130	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0787 J	0.0226	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0742 J	0.0182	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0257 U	0.0257	5.00	ng/kg	90		78-130		
234678-HxCDF	0.140 J	0.0211	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.258 J	0.0141	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0706 J	0.0306	5.00	ng/kg	91		78-138		
OCDF	0.395 J	0.0438	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11179162401A	Sample number(s): 6320629					BKG: P325676			
Moisture Content by 160.3						13.6	14.1	4	20
Batch number: 11181001	Sample number(s): 6320629					UNSPK: P316993			
2378-TCDD	97	97	67-158	1	25				
12378-PeCDD	99	101	70-142	1	25				
123478-HxCDD	97	97	70-164	0	25				
123678-HxCDD	91	95	76-134	4	25				
123789-HxCDD	94	92	64-162	2	25				
1234678-HpCDD	92	91	70-140	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252254
Reported: 07/15/11 at 10:13 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	91	90	78-144	1	25				
2378-TCDF	99	98	75-158	0	25				
12378-PeCDF	94	94	80-134	0	25				
23478-PeCDF	92	91	68-160	1	25				
123478-HxCDF	89	90	72-134	1	25				
123678-HxCDF	89	89	84-130	1	25				
123789-HxCDF	89	89	78-130	0	25				
234678-HxCDF	91	91	70-156	0	25				
1234678-HpCDF	88	88	82-122	0	25				
1234789-HpCDF	92	90	78-138	2	25				
OCDF	90	90	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11181001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6320629	72	73	66	80	77	67
Blank	74	70	69	86	75	72
MS	70	68	67	81	71	70
MSD	58	60	58	70	62	58
OPR	60	59	57	70	61	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6320629	87	57	48	86	69	77
Blank	113	63	59	99	75	86
MS	102	59	54	89	69	77
MSD	89	52	48	76	58	66
OPR	93	53	50	85	64	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6320629	77	75	74	71	79	82
Blank	88	87	91	90	70	82
MS	80	79	81	78	69	80
MSD	68	68	71	69	58	67
OPR	74	73	76	76	58	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252254
Reported: 07/15/11 at 10:13 AM

Surrogate Quality Control

	13C12-2378-TCDF-Conf
6320629	69
Blank	61
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp#1252254 Samp6#6320629

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-051-SA5DN-SB-8.0	06.17.11	0945	SOIL	NONE	4-Encores										X	X											
SL-051-SA5DN-SB-7.5-8.5	06.17.11	0950	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA5DN-SB-7.5	06.17.11	1330	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-058-SA5DN-SB-7.0	06.17.11	1540	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-058-SA5DN-SB-9.0	06.17.11	1135	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-063-SA5DN-SB-6.5	06.17.11	1125	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
TB-061711	06.17.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*) — Date/Time: 06/17/2011 / 1700

Received for Laboratory by: (*Signature*) — 6/18/11 1015

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8754 3340 3481

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Monday, June 20, 2011 1:55 PM
To: Nicole Maljovec
Subject: Friday's COC

Attachments: COC_06_17_11.xlsx

COC_06_17_11.xlsx (15 KB)

Hi Nicole!

I totally spaced on one aspect of our COC for last Friday 6/17/11. We were actually sampling in area 8N, not area 5DN. I have attached an updated COC with the correct samples names. The jars and encores should also have the correct sample name. Sorry for the confusion!

Thanks!!

13013/12552254 /G320629

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-051-SA8N-SB-8.0	06.17.11	0945	SOIL	NONE	4-Encores										X	X											
SL-051-SA8N-SB-7.5-8.5	06.17.11	0950	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA58N-SB-7.5	06.17.11	1530	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-058-SA8N-SB-7.0	06.17.11	1540	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-059-SA8N-SB-9.0	06.17.11	1135	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-063-SA8N-SB-6.5	06.17.11	1125	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
TB-061711	06.17.11	0800	WATER	NONE	3-40mL Vials										X	X											

Amended COC NLM 6/23/11

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/17/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 3481	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/12/2011
Group Number: 1241642
SDG: DE124
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP01-SA8N-QC-041111 Soil	6255782
SL-001-SA8N-SS-0.0-0.5 Soil	6255783
SL-002-SA8N-SS-0.0-0.5 Soil	6255784
SL-003-SA8N-SS-0.0-0.5 Soil	6255785
SL-004-SA8N-SS-0.0-0.5 Soil	6255786
SL-005-SA8N-SS-0.0-0.5 Soil	6255787
SL-006-SA8N-SS-0.0-0.5 Soil	6255788
SL-007-SA8N-SS-0.0-0.5 Soil	6255789
SL-008-SA8N-SS-0.0-0.5 Soil	6255790
SL-009-SA8N-SS-0.0-0.5 Soil	6255791
SL-010-SA8N-SS-0.0-0.5 Soil	6255792
SL-011-SA8N-SS-0.0-0.5 Soil	6255793
SL-013-SA8N-SS-0.0-0.5 Soil	6255794
SL-013-SA8N-SS-0.0-0.5MS Soil	6255795
SL-013-SA8N-SS-0.0-0.5MSD Soil	6255796
SL-013-SA8N-SS-0.0-0.5DUP Soil	6255797
SL-014-SA8N-SS-0.0-0.5 Soil	6255798
SL-017-SA8N-SS-0.0-0.5 Soil	6255799
SL-049-SA8N-SS-0.0-0.5 Soil	6255800

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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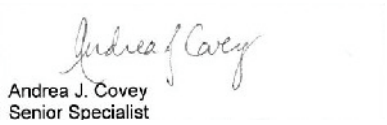
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Andrea J. Covey
Senior Specialist

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	3.9	J	3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	6.2	J	3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.6		5
10138	Chrysene	218-01-9	4.7	J	1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Fluoranthene	206-44-0	5.7	J	3.8	9.6		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.6		5
10138	Pyrene	129-00-0	5.8	J	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	10		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	1.8	J	0.39	2.0		1
10225	PCB-1254	11097-69-1	5.0		0.39	2.0		1
10225	PCB-1260	11096-82-5	20		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.76	22.9		1
07914	Boron	7440-42-8	11.2		1.02	5.73		1
01650	Calcium	7440-70-2	17,800		7.02	22.9		1
01654	Iron	7439-89-6	22,400		5.39	22.9		1
01656	Lithium	7439-93-2	21.5		0.25	2.3		1
01657	Magnesium	7439-95-4	5,330		2.91	11.5		1
06958	Manganese	7439-96-5	310		0.0893	0.573		1
10145	Phosphorus	7723-14-0	428		0.641	11.5		1
01662	Potassium	7440-09-7	3,320		20.6	57.3		1
01667	Sodium	7440-23-5	84.0	J	42.7	115		1
07968	Strontium	7440-24-6	30.8		0.0710	0.573		1
06969	Tin	7440-31-5	2.62	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,270		0.427	1.12		1
10146	Zirconium	7440-67-7	2.49	J	0.962	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0937	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0907	0.454		2
06126	Barium	7440-39-3	94.3		0.122	0.454		2
06127	Beryllium	7440-41-7	0.646		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.609		0.0454	0.113		2
06131	Chromium	7440-47-3	23.4		0.136	0.454		2
06132	Cobalt	7440-48-4	12.6		0.0227	0.113		2
06133	Copper	7440-50-8	15.5		0.0763	0.463		2
06135	Lead	7439-92-1	13.0		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.656		0.0567	0.113		2
06139	Nickel	7440-02-0	29.3		0.113	0.454		2
06141	Selenium	7782-49-2	0.131	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0613	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.289		0.0340	0.113		2
06148	Vanadium	7440-62-2	42.4		0.0250	0.113		2
06149	Zinc	7440-66-6	331		1.59	8.51		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.93	1.2		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.23	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	411		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	14.4		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 10:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 01:34	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 16:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 20:55	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1

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Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 07:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:13	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:22	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:14	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:22	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:14	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:22	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 20:16	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 12:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 16:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/20/2011 22:35	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255782
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE124-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	630		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.84	U	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.84	U	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	U	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.5	U	7.5	23		1
10138	Di-n-butylphthalate	84-74-2	7.5	U	7.5	23		1
10138	Chrysene	218-01-9	1.4	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	23		1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	23		1
10138	Fluoranthene	206-44-0	1.3	J	0.84	2.1		1
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	0.87	J	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.5	U	7.5	23		1
10138	Phenanthrene	85-01-8	0.87	J	0.84	2.1		1
10138	Pyrene	129-00-0	1.2	J	0.84	2.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.3	U	6.3	21		5
10225	Aroclor 5442	12642-23-8	6.3	U	6.3	21		5
10225	Aroclor 5460	11126-42-4	8.4	J	6.3	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11		5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11		5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5
10225	PCB-1254	11097-69-1	8.0	J	2.1	11		5
10225	PCB-1260	11096-82-5	4.4	J	2.5	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.3	U	6.3	16		1
08283	Ethylene glycol	107-21-1	6.3	U	6.3	16		1
08283	Propylene glycol	57-55-6	6.3	U	6.3	16		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		6.15	24.5		1
07914	Boron	7440-42-8	18.4		1.09	6.11		1
01650	Calcium	7440-70-2	37,100		7.50	24.5		1
01654	Iron	7439-89-6	29,800		5.76	24.5		1
01656	Lithium	7439-93-2	24.7		0.27	2.4		1
01657	Magnesium	7439-95-4	7,810		3.11	12.2		1
06958	Manganese	7439-96-5	415		0.0954	0.611		1
10145	Phosphorus	7723-14-0	698		0.685	12.2		1
01662	Potassium	7440-09-7	6,590		22.0	61.1		1
01667	Sodium	7440-23-5	99.4	J	45.6	122		1
07968	Strontium	7440-24-6	68.6		0.0758	0.611		1
06969	Tin	7440-31-5	2.91	J	1.22	12.2		1
06970	Titanium	7440-32-6	1,390		0.474	1.25		1
10146	Zirconium	7440-67-7	2.53	J	1.03	6.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.409		0.0756	0.252		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.1		0.101	0.504		2
06126	Barium	7440-39-3	117		0.136	0.504		2
06127	Beryllium	7440-41-7	0.948		0.0202	0.126		2
06128	Cadmium	7440-43-9	0.471		0.0504	0.126		2
06131	Chromium	7440-47-3	38.1		0.151	0.504		2
06132	Cobalt	7440-48-4	12.6		0.0252	0.126		2
06133	Copper	7440-50-8	19.3		0.0815	0.494		2
06135	Lead	7439-92-1	33.6		0.0131	0.252		2
06138	Molybdenum	7439-98-7	0.969		0.0630	0.126		2
06139	Nickel	7440-02-0	25.9		0.126	0.504		2
06141	Selenium	7782-49-2	0.437	J	0.0504	0.504		2
06142	Silver	7440-22-4	0.0297	J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.332		0.0378	0.126		2
06148	Vanadium	7440-62-2	79.4		0.0277	0.126		2
06149	Zinc	7440-66-6	86.1		0.705	3.78		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.121		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		1.0	1.3		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3	U	11.3	37.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.3		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	429		10.0	10.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	20.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 10:59	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 02:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 16:48	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 21:13	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:15	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:25	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:18	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:25	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:18	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 13:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 16:37	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/20/2011 22:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255783
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL001 SDG#: DE124-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.1		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.1		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.82	U	0.82	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.82	U	0.82	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.82	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	1.5	J	0.41	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.1		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	2.1		0.82	2.1		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.1		1
10138	Naphthalene	91-20-3	1.1	J	0.82	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	1.4	J	0.82	2.1		1
10138	Pyrene	129-00-0	1.6	J	0.82	2.1		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.2	U	6.2	20		5
10225	Aroclor 5442	12642-23-8	6.2	U	6.2	20		5
10225	Aroclor 5460	11126-42-4	6.2	U	6.2	20		5
10225	PCB-1016	12674-11-2	2.0	U	2.0	11		5
10225	PCB-1221	11104-28-2	2.0	U	2.0	11		5
10225	PCB-1232	11141-16-5	2.0	U	2.0	11		5
10225	PCB-1242	53469-21-9	2.0	U	2.0	11		5
10225	PCB-1248	12672-29-6	2.0	U	2.0	11		5
10225	PCB-1254	11097-69-1	4.7	J	2.0	11		5
10225	PCB-1260	11096-82-5	4.9	J	2.4	11		5
10225	PCB-1262	37324-23-5	2.0	U	2.0	11		5
10225	PCB-1268	11100-14-4	2.0	U	2.0	11		5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	15		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	15		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		6.05	24.1		1
07914	Boron	7440-42-8	15.9		1.07	6.02		1
01650	Calcium	7440-70-2	28,100		7.37	24.1		1
01654	Iron	7439-89-6	31,000		5.67	24.1		1
01656	Lithium	7439-93-2	26.4		0.26	2.4		1
01657	Magnesium	7439-95-4	7,750		3.06	12.0		1
06958	Manganese	7439-96-5	437		0.0938	0.602		1
10145	Phosphorus	7723-14-0	536		0.674	12.0		1
01662	Potassium	7440-09-7	5,810		21.7	60.2		1
01667	Sodium	7440-23-5	92.6	J	44.9	120		1
07968	Strontium	7440-24-6	53.9		0.0746	0.602		1
06969	Tin	7440-31-5	4.08	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,210		0.453	1.19		1
10146	Zirconium	7440-67-7	3.26	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.420		0.0743	0.248		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.28		0.0991	0.496		2
06126	Barium	7440-39-3	129		0.134	0.496		2
06127	Beryllium	7440-41-7	0.858		0.0198	0.124		2
06128	Cadmium	7440-43-9	0.414		0.0496	0.124		2
06131	Chromium	7440-47-3	31.7		0.149	0.496		2
06132	Cobalt	7440-48-4	10.9		0.0248	0.124		2
06133	Copper	7440-50-8	20.2		0.0810	0.491		2
06135	Lead	7439-92-1	48.7		0.0129	0.248		2
06138	Molybdenum	7439-98-7	0.495		0.0620	0.124		2
06139	Nickel	7440-02-0	21.9		0.124	0.496		2
06141	Selenium	7782-49-2	0.227	J	0.0496	0.496		2
06142	Silver	7440-22-4	0.0326	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.369		0.0372	0.124		2
06148	Vanadium	7440-62-2	56.1		0.0273	0.124		2
06149	Zinc	7440-66-6	78.2		0.694	3.72		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.121		1

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Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.7		0.99	1.2		1
		EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	11.2	U	11.2	37.2		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.54	J	0.25	1.2		1
		ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential		n.a.	411		10.0	10.0		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	8.35		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.		n.a.	19.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 11:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 02:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/21/2011 11:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 17:07	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1

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Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111030027A	04/14/2011 21:30	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111030027A	04/13/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:51	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:34	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:20	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:34	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:19	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:34	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:19	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:34	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 13:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 17:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/20/2011 22:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1

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Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255784
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL002 SDG#: DE124-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	2	11109182101A	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402A	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	21	410		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	41	U	41	210		1
04688	4-Methylphenol	106-44-5	41	U	41	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	41	U	41	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1

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Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.84	J	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	1.8	J	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	2.1		0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	1.3	J	0.82	2.0		1
10138	Pyrene	129-00-0	1.7	J	0.82	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.2	U	6.2	21		5
10225	Aroclor 5442	12642-23-8	6.2	U	6.2	21		5
10225	Aroclor 5460	11126-42-4	6.2	U	6.2	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11		5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11		5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5
10225	PCB-1254	11097-69-1	7.1	J	2.1	11		5
10225	PCB-1260	11096-82-5	3.7	J	2.4	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	16		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	16		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	16		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		6.19	24.6		1
07914	Boron	7440-42-8	16.8		1.10	6.16		1
01650	Calcium	7440-70-2	37,900		7.55	24.6		1
01654	Iron	7439-89-6	29,900		5.80	24.6		1
01656	Lithium	7439-93-2	27.2		0.27	2.5		1
01657	Magnesium	7439-95-4	7,610		3.13	12.3		1
06958	Manganese	7439-96-5	452		0.0961	0.616		1
10145	Phosphorus	7723-14-0	559		0.690	12.3		1
01662	Potassium	7440-09-7	5,140		22.2	61.6		1
01667	Sodium	7440-23-5	106	J	45.9	123		1
07968	Strontium	7440-24-6	70.8		0.0764	0.616		1
06969	Tin	7440-31-5	3.03	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,510		0.463	1.22		1
10146	Zirconium	7440-67-7	3.36	J	1.03	6.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.350		0.0746	0.249		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.89		0.0995	0.498		2
06126	Barium	7440-39-3	112		0.134	0.498		2
06127	Beryllium	7440-41-7	0.770		0.0199	0.124		2
06128	Cadmium	7440-43-9	0.318		0.0498	0.124		2
06131	Chromium	7440-47-3	29.4		0.149	0.498		2
06132	Cobalt	7440-48-4	10.6		0.0249	0.124		2
06133	Copper	7440-50-8	18.3		0.0813	0.493		2
06135	Lead	7439-92-1	31.7		0.0129	0.249		2
06138	Molybdenum	7439-98-7	0.345		0.0622	0.124		2
06139	Nickel	7440-02-0	21.3		0.124	0.498		2
06141	Selenium	7782-49-2	0.225	J	0.0498	0.498		2
06142	Silver	7440-22-4	0.0491	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.313		0.0373	0.124		2
06148	Vanadium	7440-62-2	53.1		0.0274	0.124		2
06149	Zinc	7440-66-6	72.5		0.697	3.73		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	U	0.0036	0.124		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		1.0	1.2		1

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.2	U	11.2	37.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.25	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	348		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	19.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 11:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 03:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 17:25	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011 19:03	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1

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Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:55	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:22	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:37	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:21	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:37	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:21	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 13:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201A	04/26/2011 17:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 03:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201A	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1

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Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255785
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL003 SDG#: DE124-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	26	J	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	72		6.9	21		1
10138	Chrysene	218-01-9	1.9	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.2		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.76	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.5	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.9	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1

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Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	12	U	12	38		10
10225	Aroclor 5442	12642-23-8	12	U	12	38		10
10225	Aroclor 5460	11126-42-4	12	U	12	38		10
10225	PCB-1016	12674-11-2	3.8	U	3.8	20		10
10225	PCB-1221	11104-28-2	3.8	U	3.8	20		10
10225	PCB-1232	11141-16-5	3.8	U	3.8	20		10
10225	PCB-1242	53469-21-9	3.8	U	3.8	20		10
10225	PCB-1248	12672-29-6	3.8	U	3.8	20		10
10225	PCB-1254	11097-69-1	9.5	J	3.8	20		10
10225	PCB-1260	11096-82-5	4.5	U	4.5	20		10
10225	PCB-1262	37324-23-5	3.8	U	3.8	20		10
10225	PCB-1268	11100-14-4	3.8	U	3.8	20		10
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.58	22.2		1
07914	Boron	7440-42-8	16.0		0.988	5.55		1
01650	Calcium	7440-70-2	50,200		6.81	22.2		1
01654	Iron	7439-89-6	27,300		5.23	22.2		1
01656	Lithium	7439-93-2	24.6		0.24	2.2		1

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Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	9,880		2.82	11.1		1
06958	Manganese	7439-96-5	383		0.0866	0.555		1
10145	Phosphorus	7723-14-0	639		0.622	11.1		1
01662	Potassium	7440-09-7	4,740		20.0	55.5		1
01667	Sodium	7440-23-5	107	J	41.4	111		1
07968	Strontium	7440-24-6	87.9		0.0688	0.555		1
06969	Tin	7440-31-5	2.54	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,210		0.430	1.13		1
10146	Zirconium	7440-67-7	3.10	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.957		0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.59		0.0906	0.453		2
06126	Barium	7440-39-3	103		0.122	0.453		2
06127	Beryllium	7440-41-7	0.684		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.304		0.0453	0.113		2
06131	Chromium	7440-47-3	28.4		0.136	0.453		2
06132	Cobalt	7440-48-4	9.94		0.0226	0.113		2
06133	Copper	7440-50-8	16.5		0.0733	0.444		2
06135	Lead	7439-92-1	121		0.0294	0.566		5
06138	Molybdenum	7439-98-7	0.339		0.0566	0.113		2
06139	Nickel	7440-02-0	18.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.196	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0343	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.302		0.0340	0.113		2
06148	Vanadium	7440-62-2	49.1		0.0249	0.113		2
06149	Zinc	7440-66-6	66.6		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	354		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.01	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	12:12	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011	03:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011	06:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	17:44	Lindsey K Lafferty	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011	15:30	Wanda F Oswald	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	20:48	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011	17:00	John P Hook	1

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Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255786
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL004 SDG#: DE124-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:24	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 20:23	David K Beck	5
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 20:29	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:29	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:40	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:29	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 14:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 18:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/20/2011 23:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	79	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.0	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	1.7	J	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	12	J	6.3	19		1
10138	Phenanthrene	85-01-8	0.92	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.4	J	0.70	1.7		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1

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Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.1	U	2.1	7.0		2
10225	Aroclor 5442	12642-23-8	2.1	U	2.1	7.0		2
10225	Aroclor 5460	11126-42-4	4.0	J	2.1	7.0		2
10225	PCB-1016	12674-11-2	0.70	U	0.70	3.6		2
10225	PCB-1221	11104-28-2	0.70	U	0.70	3.6		2
10225	PCB-1232	11141-16-5	0.70	U	0.70	3.6		2
10225	PCB-1242	53469-21-9	0.70	U	0.70	3.6		2
10225	PCB-1248	12672-29-6	0.70	U	0.70	3.6		2
10225	PCB-1254	11097-69-1	1.6	J	0.70	3.6		2
10225	PCB-1260	11096-82-5	3.1	J	0.82	3.6		2
10225	PCB-1262	37324-23-5	0.70	U	0.70	3.6		2
10225	PCB-1268	11100-14-4	0.70	U	0.70	3.6		2
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	13		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	13		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	13		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.16	20.5		1
07914	Boron	7440-42-8	12.3		0.912	5.13		1
01650	Calcium	7440-70-2	29,700		6.28	20.5		1
01654	Iron	7439-89-6	31,200		9.66	41.0		2
01656	Lithium	7439-93-2	20.1		0.23	2.1		1

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Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,000		2.60	10.3		1
06958	Manganese	7439-96-5	306		0.0800	0.513		1
10145	Phosphorus	7723-14-0	3,620		1.15	20.5		2
01662	Potassium	7440-09-7	3,140		18.5	51.3		1
01667	Sodium	7440-23-5	168		38.2	103		1
07968	Strontium	7440-24-6	52.0		0.0636	0.513		1
06969	Tin	7440-31-5	2.59	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,000		0.393	1.04		1
10146	Zirconium	7440-67-7	0.929	J	0.861	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	87.0		0.0621	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	78.4		0.0828	0.414		2
06126	Barium	7440-39-3	153		0.112	0.414		2
06127	Beryllium	7440-41-7	0.483		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.905		0.0414	0.104		2
06131	Chromium	7440-47-3	20.0		0.124	0.414		2
06132	Cobalt	7440-48-4	11.1		0.0207	0.104		2
06133	Copper	7440-50-8	13.7		0.0683	0.414		2
06135	Lead	7439-92-1	9,920		2.69	51.8		500
06138	Molybdenum	7439-98-7	0.759		0.0518	0.104		2
06139	Nickel	7440-02-0	13.2		0.104	0.414		2
06141	Selenium	7782-49-2	0.226	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.515		0.0124	0.104		2
06145	Thallium	7440-28-0	0.177		0.0311	0.104		2
06148	Vanadium	7440-62-2	43.2		0.0228	0.104		2
06149	Zinc	7440-66-6	68.2		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	354		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	5.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	12:36	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011	04:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011	07:09	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	18:02	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011	15:30	Wanda F Oswald	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	21:05	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011	17:56	John P Hook	2
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011	17:56	John P Hook	2
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011	17:04	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255787
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL005 SDG#: DE124-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:25	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:26	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/19/2011 14:30	Choon Y Tian	500
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:43	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:30	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:43	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:30	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 14:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 19:15	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/20/2011 23:44	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	2.5		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	3.6		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.5	J	6.8	21		1
10138	Phenanthrene	85-01-8	2.2		0.76	1.9		1
10138	Pyrene	129-00-0	2.9		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1

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Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.72	J	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,100		5.57	22.1		1
07914	Boron	7440-42-8	14.7		0.985	5.53		1
01650	Calcium	7440-70-2	18,200		6.78	22.1		1
01654	Iron	7439-89-6	31,700		10.4	44.3		2
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	7,000		2.81	11.1		1

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Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	470		0.0863	0.553		1
10145	Phosphorus	7723-14-0	410		0.620	11.1		1
01662	Potassium	7440-09-7	3,040		19.9	55.3		1
01667	Sodium	7440-23-5	85.8	J	41.3	111		1
07968	Strontium	7440-24-6	45.5		0.0686	0.553		1
06969	Tin	7440-31-5	2.90	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,440		0.433	1.14		1
10146	Zirconium	7440-67-7	3.69	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.368		0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.59		0.0911	0.456		2
06126	Barium	7440-39-3	133		0.123	0.456		2
06127	Beryllium	7440-41-7	0.841		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.231		0.0456	0.114		2
06131	Chromium	7440-47-3	32.6		0.137	0.456		2
06132	Cobalt	7440-48-4	10.7		0.0228	0.114		2
06133	Copper	7440-50-8	17.3		0.0752	0.456		2
06135	Lead	7439-92-1	12.8		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.370		0.0570	0.114		2
06139	Nickel	7440-02-0	20.7		0.114	0.456		2
06141	Selenium	7782-49-2	0.0851	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0193	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.334		0.0342	0.114		2
06148	Vanadium	7440-62-2	56.2		0.0251	0.114		2
06149	Zinc	7440-66-6	65.0		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.87	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	379		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	13:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011	08:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011	07:51	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	18:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011	15:30	Wanda F Oswald	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	21:23	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011	18:00	John P Hook	2
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011	17:08	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255788
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL006 SDG#: DE124-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 20:34	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 20:34	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:28	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:46	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:34	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:46	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:34	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 15:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 19:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 00:03	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1

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Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	2.7		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	3.6		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.81	2.0		1
10138	Naphthalene	91-20-3	1.6	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	10	J	7.3	22		1
10138	Phenanthrene	85-01-8	2.3		0.81	2.0		1
10138	Pyrene	129-00-0	2.9		0.81	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.4	U	2.4	8.0		2
10225	Aroclor 5442	12642-23-8	2.4	U	2.4	8.0		2
10225	Aroclor 5460	11126-42-4	8.7		2.4	8.0		2
10225	PCB-1016	12674-11-2	0.80	U	0.80	4.1		2
10225	PCB-1221	11104-28-2	0.80	U	0.80	4.1		2
10225	PCB-1232	11141-16-5	0.80	U	0.80	4.1		2
10225	PCB-1242	53469-21-9	0.80	U	0.80	4.1		2
10225	PCB-1248	12672-29-6	0.80	U	0.80	4.1		2
10225	PCB-1254	11097-69-1	2.5	J	0.80	4.1		2
10225	PCB-1260	11096-82-5	0.95	U	0.95	4.1		2
10225	PCB-1262	37324-23-5	0.80	U	0.80	4.1		2
10225	PCB-1268	11100-14-4	3.1	J	0.80	4.1		2
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1

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Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.95	23.7		1
07914	Boron	7440-42-8	19.2		1.05	5.91		1
01650	Calcium	7440-70-2	19,000		7.25	23.7		1
01654	Iron	7439-89-6	39,800		11.1	47.3		2
01656	Lithium	7439-93-2	23.4		0.26	2.4		1
01657	Magnesium	7439-95-4	7,370		3.00	11.8		1
06958	Manganese	7439-96-5	448		0.0922	0.591		1
10145	Phosphorus	7723-14-0	664		0.662	11.8		1
01662	Potassium	7440-09-7	6,380		21.3	59.1		1
01667	Sodium	7440-23-5	88.0	J	44.1	118		1
07968	Strontium	7440-24-6	41.0		0.0733	0.591		1
06969	Tin	7440-31-5	3.03	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,410		0.449	1.18		1
10146	Zirconium	7440-67-7	2.67	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.186	J	0.0731	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.53		0.0974	0.487		2
06126	Barium	7440-39-3	107		0.132	0.487		2
06127	Beryllium	7440-41-7	0.781		0.0195	0.122		2
06128	Cadmium	7440-43-9	0.447		0.0487	0.122		2
06131	Chromium	7440-47-3	29.5		0.146	0.487		2
06132	Cobalt	7440-48-4	10.2		0.0244	0.122		2
06133	Copper	7440-50-8	19.4		0.0773	0.468		2
06135	Lead	7439-92-1	15.7		0.0127	0.244		2
06138	Molybdenum	7439-98-7	0.471		0.0609	0.122		2
06139	Nickel	7440-02-0	20.8		0.122	0.487		2
06141	Selenium	7782-49-2	0.194	J	0.0487	0.487		2
06142	Silver	7440-22-4	0.0394	J	0.0146	0.122		2
06145	Thallium	7440-28-0	0.326		0.0365	0.122		2
06148	Vanadium	7440-62-2	52.9		0.0268	0.122		2
06149	Zinc	7440-66-6	102		0.682	3.65		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	U	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	386		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	13:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011	08:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	18:40	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	21:41	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:12	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 18:04	John P Hook	2
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 20:36	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:30	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:49	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:36	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:49	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:36	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 15:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 20:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 00:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1

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Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255789
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL007 SDG#: DE124-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	1.4	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.90	J	0.72	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.86	J	0.72	1.8		1
10138	Pyrene	129-00-0	0.96	J	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.7		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.0	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	1.6	J	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	14		1

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Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	14		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		5.35	21.3		1
07914	Boron	7440-42-8	12.9		0.947	5.32		1
01650	Calcium	7440-70-2	16,500		6.53	21.3		1
01654	Iron	7439-89-6	25,300		5.01	21.3		1
01656	Lithium	7439-93-2	23.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,850		2.70	10.6		1
06958	Manganese	7439-96-5	348		0.0830	0.532		1
10145	Phosphorus	7723-14-0	441		0.596	10.6		1
01662	Potassium	7440-09-7	3,900		19.2	53.2		1
01667	Sodium	7440-23-5	91.3	J	39.7	106		1
07968	Strontium	7440-24-6	27.2		0.0660	0.532		1
06969	Tin	7440-31-5	2.95	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,320		0.413	1.09		1
10146	Zirconium	7440-67-7	1.91	J	0.894	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.69		0.0877	0.439		2
06126	Barium	7440-39-3	89.1		0.118	0.439		2
06127	Beryllium	7440-41-7	0.621		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.226		0.0439	0.110		2
06131	Chromium	7440-47-3	23.3		0.132	0.439		2
06132	Cobalt	7440-48-4	8.43		0.0219	0.110		2
06133	Copper	7440-50-8	13.3		0.0717	0.434		2
06135	Lead	7439-92-1	12.6		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.442		0.0548	0.110		2
06139	Nickel	7440-02-0	16.4		0.110	0.439		2
06141	Selenium	7782-49-2	0.0905	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0385	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.277		0.0329	0.110		2
06148	Vanadium	7440-62-2	41.3		0.0241	0.110		2
06149	Zinc	7440-66-6	100		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0052	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Analysis Report

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	374		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	13:50	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011	09:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	18:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	21:58	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:17	John P Hook	1

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Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:31	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:53	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:38	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:53	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:38	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 15:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 20:46	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 00:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1

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Sample Description: **SL-008-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255790
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL008 SDG#: DE124-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL009 SDG#: DE124-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL009 SDG#: DE124-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

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SL009 SDG#: DE124-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	1.4	J	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,000		5.91	23.5		1
07914	Boron	7440-42-8	17.5		1.05	5.88		1
01650	Calcium	7440-70-2	29,300		7.21	23.5		1
01654	Iron	7439-89-6	30,700		5.54	23.5		1
01656	Lithium	7439-93-2	24.1		0.26	2.4		1
01657	Magnesium	7439-95-4	6,870		2.99	11.8		1

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SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL009 SDG#: DE124-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	436		0.0917	0.588		1
10145	Phosphorus	7723-14-0	306		0.658	11.8		1
01662	Potassium	7440-09-7	3,850		21.2	58.8		1
01667	Sodium	7440-23-5	257		43.9	118		1
07968	Strontium	7440-24-6	48.7		0.0729	0.588		1
06969	Tin	7440-31-5	2.91	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,340		0.438	1.15		1
10146	Zirconium	7440-67-7	3.49	J	0.988	5.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.00		0.0914	0.457		2
06126	Barium	7440-39-3	137		0.123	0.457		2
06127	Beryllium	7440-41-7	0.937		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.406		0.0457	0.114		2
06131	Chromium	7440-47-3	31.7		0.137	0.457		2
06132	Cobalt	7440-48-4	12.2		0.0228	0.114		2
06133	Copper	7440-50-8	18.4		0.0776	0.470		2
06135	Lead	7439-92-1	11.5		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.316		0.0571	0.114		2
06139	Nickel	7440-02-0	23.4		0.114	0.457		2
06141	Selenium	7782-49-2	0.0965	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0497	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.363		0.0343	0.114		2
06148	Vanadium	7440-62-2	55.2		0.0251	0.114		2
06149	Zinc	7440-66-6	240		1.60	8.56		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0293	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	364		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL009 SDG#: DE124-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	14:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011	09:50	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011	08:33	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	19:17	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011	15:30	Wanda F Oswald	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011	22:16	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011	12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011	17:21	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255791
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL009 SDG#: DE124-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:21	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:33	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:56	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:40	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:56	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:40	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:56	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 20:41	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201A	04/25/2011 15:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 21:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 00:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201A	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	685		198	395		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.87	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.4	U	2.4	7.8		2
10225	Aroclor 5442	12642-23-8	2.4	U	2.4	7.8		2
10225	Aroclor 5460	11126-42-4	30		2.4	7.8		2
10225	PCB-1016	12674-11-2	0.78	U	0.78	4.0		2
10225	PCB-1221	11104-28-2	0.78	U	0.78	4.0		2
10225	PCB-1232	11141-16-5	0.78	U	0.78	4.0		2
10225	PCB-1242	53469-21-9	0.78	U	0.78	4.0		2
10225	PCB-1248	12672-29-6	0.78	U	0.78	4.0		2
10225	PCB-1254	11097-69-1	4.9		0.78	4.0		2
10225	PCB-1260	11096-82-5	0.92	U	0.92	4.0		2
10225	PCB-1262	37324-23-5	0.78	U	0.78	4.0		2
10225	PCB-1268	11100-14-4	29		0.78	4.0		2
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	4.1		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	26		0.47	1.4		1

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Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.84	23.2		1
07914	Boron	7440-42-8	17.1		1.03	5.81		1
01650	Calcium	7440-70-2	12,200		7.12	23.2		1
01654	Iron	7439-89-6	30,000		5.47	23.2		1
01656	Lithium	7439-93-2	23.1		0.26	2.3		1
01657	Magnesium	7439-95-4	6,600		2.95	11.6		1
06958	Manganese	7439-96-5	421		0.0906	0.581		1
10145	Phosphorus	7723-14-0	461		0.650	11.6		1
01662	Potassium	7440-09-7	4,690		20.9	58.1		1
01667	Sodium	7440-23-5	83.8	J	43.3	116		1
07968	Strontium	7440-24-6	32.3		0.0720	0.581		1
06969	Tin	7440-31-5	3.00	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,360		0.446	1.17		1
10146	Zirconium	7440-67-7	3.39	J	0.976	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.62		0.0938	0.469		2
06126	Barium	7440-39-3	118		0.127	0.469		2
06127	Beryllium	7440-41-7	0.750		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.248		0.0469	0.117		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.8	0.141	0.469		2
06132	Cobalt	7440-48-4	9.96	0.0235	0.117		2
06133	Copper	7440-50-8	18.2	0.0774	0.469		2
06135	Lead	7439-92-1	11.2	0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.358	0.0587	0.117		2
06139	Nickel	7440-02-0	18.8	0.117	0.469		2
06141	Selenium	7782-49-2	0.138 J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0339 J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.319	0.0352	0.117		2
06148	Vanadium	7440-62-2	49.2	0.0258	0.117		2
06149	Zinc	7440-66-6	94.3	0.657	3.52		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099 J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4	0.95	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.24	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.59		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	376	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 17:48	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 14:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011 10:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 09:16	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:07	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/20/2011 12:43	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/23/2011 00:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 21:39	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/16/2011 00:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 21:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255792
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL010 SDG#: DE124-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:25	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:35	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:59	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:43	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:59	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:43	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 16:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 16:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621201A	04/28/2011 14:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 21:31	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 00:53	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11118621201A	04/28/2011 09:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	380	J	197	394		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	28	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	42	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	25	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	15		3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	14		3.9	9.7		5
10138	Benzo(b)fluoranthene	205-99-2	25		3.9	9.7		5
10138	Benzo(g,h,i)perylene	191-24-2	7.9	J	3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	9.8		3.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7		5
10138	Fluoranthene	206-44-0	24		3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	J	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Phenanthrene	85-01-8	7.9	J	3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	3.2	J	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.4	U	2.4	7.8		2
10225	Aroclor 5442	12642-23-8	2.4	U	2.4	7.8		2
10225	Aroclor 5460	11126-42-4	13		2.4	7.8		2
10225	PCB-1016	12674-11-2	0.78	U	0.78	4.0		2
10225	PCB-1221	11104-28-2	0.78	U	0.78	4.0		2
10225	PCB-1232	11141-16-5	0.78	U	0.78	4.0		2
10225	PCB-1242	53469-21-9	0.78	U	0.78	4.0		2
10225	PCB-1248	12672-29-6	0.78	U	0.78	4.0		2
10225	PCB-1254	11097-69-1	75		0.78	4.0		2
10225	PCB-1260	11096-82-5	0.92	U	0.92	4.0		2
10225	PCB-1262	37324-23-5	0.78	U	0.78	4.0		2
10225	PCB-1268	11100-14-4	11		0.78	4.0		2
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.94	U	0.94	2.8		2

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Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	3.9		0.94	2.8		2
10199	EFH (C21-C30)	n.a.	24		0.94	2.8		2
10199	EFH (C30 - C40)	n.a.	73		0.94	2.8		2
10199	EFH (C8-C11)	n.a.	0.94	U	0.94	2.8		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.82	23.1		1
07914	Boron	7440-42-8	17.7		1.03	5.79		1
01650	Calcium	7440-70-2	17,600		7.10	23.1		1
01654	Iron	7439-89-6	31,400		10.9	46.3		2
01656	Lithium	7439-93-2	23.9		0.25	2.3		1
01657	Magnesium	7439-95-4	6,680		2.94	11.6		1
06958	Manganese	7439-96-5	450		0.0903	0.579		1
10145	Phosphorus	7723-14-0	574		0.648	11.6		1
01662	Potassium	7440-09-7	4,760		20.8	57.9		1
01667	Sodium	7440-23-5	100	J	43.2	116		1
07968	Strontium	7440-24-6	43.1		0.0718	0.579		1
06969	Tin	7440-31-5	2.93	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,380		0.431	1.14		1
10146	Zirconium	7440-67-7	3.21	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.157	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0926	0.463		2

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Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	134		0.125	0.463		2
06127	Beryllium	7440-41-7	0.770		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.343		0.0463	0.116		2
06131	Chromium	7440-47-3	28.7		0.139	0.463		2
06132	Cobalt	7440-48-4	10.1		0.0231	0.116		2
06133	Copper	7440-50-8	18.3		0.0757	0.459		2
06135	Lead	7439-92-1	12.0		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.501		0.0579	0.116		2
06139	Nickel	7440-02-0	19.1		0.116	0.463		2
06141	Selenium	7782-49-2	0.191	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0530	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.299		0.0347	0.116		2
06148	Vanadium	7440-62-2	50.6		0.0255	0.116		2
06149	Zinc	7440-66-6	82.0		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.112	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	382		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 18:05	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 15:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011 10:54	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 09:58	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:17	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:29	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 19:54	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/23/2011 01:27	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 21:54	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/16/2011 00:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 22:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 18:08	John P Hook	2
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1

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Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 08:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 17:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:37	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 17:02	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/20/2011 21:59	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 17:02	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:45	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 17:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 17:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621201A	04/28/2011 15:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 21:53	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 01:05	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	111111102201A	04/21/2011 18:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11118621201A	04/28/2011 09:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	111111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255793
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL011 SDG#: DE124-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	3.8	U	3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.6		5
10138	Chrysene	218-01-9	1.9	U	1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Fluoranthene	206-44-0	3.8	U	3.8	9.6		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.6		5
10138	Pyrene	129-00-0	3.8	U	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	20		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	5.7		0.38	2.0		1
10225	PCB-1260	11096-82-5	22		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.78	23.0		1
07914	Boron	7440-42-8	12.0		1.02	5.75		1
01650	Calcium	7440-70-2	16,400		7.05	23.0		1
01654	Iron	7439-89-6	24,000		5.42	23.0		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	5,320		2.92	11.5		1
06958	Manganese	7439-96-5	322		0.0897	0.575		1
10145	Phosphorus	7723-14-0	533		0.644	11.5		1
01662	Potassium	7440-09-7	3,140		20.7	57.5		1
01667	Sodium	7440-23-5	90.9	J	42.9	115		1
07968	Strontium	7440-24-6	30.4		0.0713	0.575		1
06969	Tin	7440-31-5	2.86	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,340		0.428	1.13		1
10146	Zirconium	7440-67-7	1.85	J	0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0902	0.451		2
06126	Barium	7440-39-3	95.5		0.122	0.451		2
06127	Beryllium	7440-41-7	0.640		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.854		0.0451	0.113		2
06131	Chromium	7440-47-3	27.8		0.135	0.451		2
06132	Cobalt	7440-48-4	11.4		0.0226	0.113		2
06133	Copper	7440-50-8	15.0		0.0752	0.455		2
06135	Lead	7439-92-1	12.3		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.468		0.0564	0.113		2
06139	Nickel	7440-02-0	28.6		0.113	0.451		2
06141	Selenium	7782-49-2	0.142	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0679	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.274		0.0338	0.113		2
06148	Vanadium	7440-62-2	41.7		0.0248	0.113		2
06149	Zinc	7440-66-6	260		1.58	8.46		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037	J	0.0032	0.112		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	379		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 15:26	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 00:00	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 20:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/16/2011 00:37	Dustin A Underkoffler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 07:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:02	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 19:48	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:03	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 19:48	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 19:59	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 16:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 17:45	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 01:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255794
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		19	190		1
04688	Acenaphthylene	208-96-8	1,600		19	190		1
04688	Aniline	62-53-3	1,300		190	570		1
04688	Anthracene	120-12-7	1,600		19	190		1
04688	Benzidine	92-87-5	2,900	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,600		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,400		19	190		1
04688	Benzoic acid	65-85-0	1,100		190	570		1
04688	Benzyl alcohol	100-51-6	1,500		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,700		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600		19	190		1
04688	Carbazole	86-74-8	1,600		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,500		38	190		1
04688	4-Chloroaniline	106-47-8	980		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	1,600		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		38	190		1
04688	Chrysene	218-01-9	1,600		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,500		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,600		19	190		1
04688	Diethylphthalate	84-66-2	1,500		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,500		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,700		38	190		1
04688	Dimethylphthalate	131-11-3	1,500		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,500		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,500		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		19	380		1
04688	Fluoranthene	206-44-0	1,600		19	190		1
04688	Fluorene	86-73-7	1,600		19	190		1
04688	Hexachlorobenzene	118-74-1	1,500		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500		77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	1,400		190	570		1
04688	Hexachloroethane	67-72-1	1,400		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190		1
04688	Isophorone	78-59-1	1,500		19	190		1

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Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500		19	190		1
04688	2-Methylphenol	95-48-7	1,500		38	190		1
04688	4-Methylphenol	106-44-5	1,700		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		19	190		1
04688	2-Nitroaniline	88-74-4	1,600		19	190		1
04688	3-Nitroaniline	99-09-2	1,500		38	190		1
04688	4-Nitroaniline	100-01-6	1,200		77	190		1
04688	Nitrobenzene	98-95-3	1,600		19	190		1
04688	2-Nitrophenol	88-75-5	1,600		19	190		1
04688	4-Nitrophenol	100-02-7	1,500		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	570		1
04688	Phenanthrene	85-01-8	1,600		19	190		1
04688	Phenol	108-95-2	1,600		19	190		1
04688	Pyrene	129-00-0	1,600		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	42		3.8	9.6		5
10138	Acenaphthylene	208-96-8	39		1.9	9.6		5
10138	Anthracene	120-12-7	41		1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	47		3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	46		3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	51		3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	28		3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	51		3.8	9.6		5
10138	Butylbenzylphthalate	85-68-7	49	J	35	100		5
10138	Di-n-butylphthalate	84-74-2	48	J	35	100		5
10138	Chrysene	218-01-9	47		1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	29		3.8	9.6		5
10138	Diethylphthalate	84-66-2	38	J	35	100		5
10138	Dimethylphthalate	131-11-3	45	J	35	100		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	67	J	35	100		5
10138	Fluoranthene	206-44-0	46		3.8	9.6		5
10138	Fluorene	86-73-7	41		3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	41		3.8	9.6		5

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Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		3.8	9.6		5
10138	Naphthalene	91-20-3	40		3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	40		3.8	9.6		5
10138	Di-n-octylphthalate	117-84-0	89	J	35	100		5
10138	Phenanthrene	85-01-8	41		3.8	9.6		5
10138	Pyrene	129-00-0	40		3.8	9.6		5
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	10		1.2	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	12		0.38	2.0		1
10225	PCB-1260	11096-82-5	39		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	140		5.8	15		1
08283	Ethylene glycol	107-21-1	130		5.8	15		1
08283	Propylene glycol	57-55-6	140		5.8	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,400		5.62	22.3		1
07914	Boron	7440-42-8	222		0.994	5.58		1
01650	Calcium	7440-70-2	14,800		6.85	22.3		1
01654	Iron	7439-89-6	25,900		5.26	22.3		1
01656	Lithium	7439-93-2	138		0.25	2.2		1
01657	Magnesium	7439-95-4	6,920		2.84	11.2		1
06958	Manganese	7439-96-5	400		0.0871	0.558		1
10145	Phosphorus	7723-14-0	591		0.625	11.2		1
01662	Potassium	7440-09-7	5,350		20.1	55.8		1
01667	Sodium	7440-23-5	1,190		41.7	112		1
07968	Strontium	7440-24-6	141		0.0692	0.558		1
06969	Tin	7440-31-5	370		1.12	11.2		1
06970	Titanium	7440-32-6	1,600		0.437	1.15		1
10146	Zirconium	7440-67-7	111		0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.347		0.0677	0.226		2

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Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.91	0.0902	0.451		2
06126	Barium	7440-39-3	130	0.122	0.451		2
06127	Beryllium	7440-41-7	1.46	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.82	0.0451	0.113		2
06131	Chromium	7440-47-3	34.0	0.135	0.451		2
06132	Cobalt	7440-48-4	70.1	0.0226	0.113		2
06133	Copper	7440-50-8	26.6	0.0767	0.465		2
06135	Lead	7439-92-1	15.9	0.0117	0.226		2
06138	Molybdenum	7439-98-7	11.1	0.0564	0.113		2
06139	Nickel	7440-02-0	39.6	0.113	0.451		2
06141	Selenium	7782-49-2	2.22	0.0451	0.451		2
06142	Silver	7440-22-4	11.6	0.0135	0.113		2
06145	Thallium	7440-28-0	0.756	0.0338	0.113		2
06148	Vanadium	7440-62-2	53.4	0.0248	0.113		2
06149	Zinc	7440-66-6	272	1.58	8.46		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	642	10.5	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	41.7	1.2	5.8		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 15:50	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 00:31	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 20:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011 19:20	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 07:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:08	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:12	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 19:54	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:12	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 19:54	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:12	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 20:08	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255795
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 16:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 18:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 01:30	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255796
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,400		190	580		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	1,700	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	580		1
04688	Benzyl alcohol	100-51-6	1,700		190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		39	190		1
04688	4-Chloroaniline	106-47-8	1,300		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,800		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		39	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,600		120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800		39	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		190	580		1
04688	2,4-Dinitrophenol	51-28-5	2,200		390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		19	390		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,800		19	190		1
04688	Hexachlorobenzene	118-74-1	1,700		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700		77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	1,600		190	580		1
04688	Hexachloroethane	67-72-1	1,500		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		19	190		1
04688	Isophorone	78-59-1	1,800		19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255796
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700		19	190		1
04688	2-Methylphenol	95-48-7	1,800		39	190		1
04688	4-Methylphenol	106-44-5	1,900		39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,800		19	190		1
04688	2-Nitroaniline	88-74-4	1,900		19	190		1
04688	3-Nitroaniline	99-09-2	1,700		39	190		1
04688	4-Nitroaniline	100-01-6	1,600		77	190		1
04688	Nitrobenzene	98-95-3	1,800		19	190		1
04688	2-Nitrophenol	88-75-5	1,800		19	190		1
04688	4-Nitrophenol	100-02-7	1,700		190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,800		39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	580		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,700		19	190		1
04688	Pyrene	129-00-0	1,800		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		39	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32		3.8	9.6		5
10138	Acenaphthylene	208-96-8	30		1.9	9.6		5
10138	Anthracene	120-12-7	32		1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	35		3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	33		3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	39		3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	20		3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	34		3.8	9.6		5
10138	Butylbenzylphthalate	85-68-7	43	J	35	100		5
10138	Di-n-butylphthalate	84-74-2	38	J	35	100		5
10138	Chrysene	218-01-9	34		1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	23		3.8	9.6		5
10138	Diethylphthalate	84-66-2	35	U	35	100		5
10138	Dimethylphthalate	131-11-3	35	U	35	100		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54	J	35	100		5
10138	Fluoranthene	206-44-0	36		3.8	9.6		5
10138	Fluorene	86-73-7	32		3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	32		3.8	9.6		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255796
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		3.8	9.6		5
10138	Naphthalene	91-20-3	31		3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	30		3.8	9.6		5
10138	Di-n-octylphthalate	117-84-0	77	J	35	100		5
10138	Phenanthrene	85-01-8	33		3.8	9.6		5
10138	Pyrene	129-00-0	32		3.8	9.6		5
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	7.7		1.2	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	11		0.38	2.0		1
10225	PCB-1260	11096-82-5	35		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	170		5.8	15		1
08283	Ethylene glycol	107-21-1	160		5.8	15		1
08283	Propylene glycol	57-55-6	180		5.8	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.78	23.0		1
07914	Boron	7440-42-8	233		1.02	5.75		1
01650	Calcium	7440-70-2	14,700		7.05	23.0		1
01654	Iron	7439-89-6	26,500		5.42	23.0		1
01656	Lithium	7439-93-2	146		0.25	2.3		1
01657	Magnesium	7439-95-4	6,260		2.92	11.5		1
06958	Manganese	7439-96-5	406		0.0897	0.575		1
10145	Phosphorus	7723-14-0	504		0.644	11.5		1
01662	Potassium	7440-09-7	5,030		20.7	57.5		1
01667	Sodium	7440-23-5	1,190		42.9	115		1
07968	Strontium	7440-24-6	147		0.0713	0.575		1
06969	Tin	7440-31-5	389		1.15	11.5		1
06970	Titanium	7440-32-6	1,600		0.437	1.15		1
10146	Zirconium	7440-67-7	118		0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.309		0.0677	0.226		2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255796
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.8	0.0902	0.451		2
06126	Barium	7440-39-3	110	0.122	0.451		2
06127	Beryllium	7440-41-7	1.57	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.62	0.0451	0.113		2
06131	Chromium	7440-47-3	36.7	0.135	0.451		2
06132	Cobalt	7440-48-4	68.7	0.0226	0.113		2
06133	Copper	7440-50-8	25.3	0.0752	0.455		2
06135	Lead	7439-92-1	14.2	0.0117	0.226		2
06138	Molybdenum	7439-98-7	11.2	0.0564	0.113		2
06139	Nickel	7440-02-0	34.1	0.113	0.451		2
06141	Selenium	7782-49-2	2.29	0.0451	0.451		2
06142	Silver	7440-22-4	11.7	0.0135	0.113		2
06145	Thallium	7440-28-0	0.802	0.0338	0.113		2
06148	Vanadium	7440-62-2	58.2	0.0248	0.113		2
06149	Zinc	7440-66-6	416	1.58	8.46		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175	0.0033	0.115		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 16:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/16/2011 01:02	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 20:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255796
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111040003A	04/15/2011 19:55	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111040003A	04/14/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 07:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:28	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:09	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:15	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 19:55	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:15	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 19:55	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:15	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 20:10	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255797
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.78	23.0		1
07914	Boron	7440-42-8	12.3		1.02	5.75		1
01650	Calcium	7440-70-2	18,600		7.05	23.0		1
01654	Iron	7439-89-6	25,600		5.42	23.0		1
01656	Lithium	7439-93-2	23.8		0.25	2.3		1
01657	Magnesium	7439-95-4	5,760		2.92	11.5		1
06958	Manganese	7439-96-5	364		0.0897	0.575		1
10145	Phosphorus	7723-14-0	416		0.644	11.5		1
01662	Potassium	7440-09-7	3,500		20.7	57.5		1
01667	Sodium	7440-23-5	82.9	J	42.9	115		1
07968	Strontium	7440-24-6	30.0		0.0713	0.575		1
06969	Tin	7440-31-5	2.89	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,270		0.437	1.15		1
10146	Zirconium	7440-67-7	3.54	J	0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0860	J	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.47		0.0902	0.451		2
06126	Barium	7440-39-3	89.5		0.122	0.451		2
06127	Beryllium	7440-41-7	0.663		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.543		0.0451	0.113		2
06131	Chromium	7440-47-3	26.1		0.135	0.451		2
06132	Cobalt	7440-48-4	16.9		0.0226	0.113		2
06133	Copper	7440-50-8	14.4		0.0759	0.460		2
06135	Lead	7439-92-1	10.8		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.476		0.0564	0.113		2
06139	Nickel	7440-02-0	42.3		0.113	0.451		2
06141	Selenium	7782-49-2	0.118	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0696	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.270		0.0338	0.113		2
06148	Vanadium	7440-62-2	42.3		0.0248	0.113		2
06149	Zinc	7440-66-6	328		1.58	8.46		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255797
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	378	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 07:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 16:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 16:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255797
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE124-13DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:06	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 16:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 19:52	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 16:09	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 19:52	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 16:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 20:06	David K Beck	5
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 16:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 18:08	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 02:35	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL014 SDG#: DE124-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL014 SDG#: DE124-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	3.1		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	4.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	2.3		0.76	1.9		1
10138	Naphthalene	91-20-3	2.3		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.8	J	0.76	1.9		1
10138	Pyrene	129-00-0	3.7		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.56	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1

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Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL014 SDG#: DE124-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was originally analyzd within 7 days of collection, however, the injection was suspected of containing carryover from a previous sample or standard injection. The analysis was repeated 8 days after collection, and the sample was free of target analytes. Since the analysis for the second trail is within the method holding time of 14 days, the second trial is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.78	23.0		1
07914	Boron	7440-42-8	9.93		1.02	5.75		1
01650	Calcium	7440-70-2	34,700		7.05	23.0		1
01654	Iron	7439-89-6	23,100		5.42	23.0		1
01656	Lithium	7439-93-2	24.0		0.25	2.3		1
01657	Magnesium	7439-95-4	5,590		2.92	11.5		1
06958	Manganese	7439-96-5	330		0.0897	0.575		1
10145	Phosphorus	7723-14-0	388		0.644	11.5		1
01662	Potassium	7440-09-7	2,130		20.7	57.5		1
01667	Sodium	7440-23-5	91.1	J	42.9	115		1
07968	Strontium	7440-24-6	39.8		0.0713	0.575		1
06969	Tin	7440-31-5	2.73	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,300		0.424	1.12		1
10146	Zirconium	7440-67-7	1.58	J	0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0786	J	0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.70		0.0911	0.455		2
06126	Barium	7440-39-3	78.2		0.123	0.455		2
06127	Beryllium	7440-41-7	0.545		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.168		0.0455	0.114		2
06131	Chromium	7440-47-3	20.1		0.137	0.455		2
06132	Cobalt	7440-48-4	6.37		0.0228	0.114		2
06133	Copper	7440-50-8	11.6		0.0737	0.447		2
06135	Lead	7439-92-1	5.91		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.241		0.0569	0.114		2
06139	Nickel	7440-02-0	14.0		0.114	0.455		2
06141	Selenium	7782-49-2	0.0838	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0284	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.228		0.0342	0.114		2
06148	Vanadium	7440-62-2	36.9		0.0251	0.114		2
06149	Zinc	7440-66-6	50.0		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1

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Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL014 SDG#: DE124-14

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.3		0.93	1.2		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.5	U	10.5	34.8		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.2		1
		ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	356		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.								
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.93		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.								

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 16:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011 11:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 21:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 15:14	Dustin A Underkoffler	1

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Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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Chantilly VA 20151

SL014 SDG#: DE124-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 09:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:41	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 17:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:43	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 17:11	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:51	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 17:11	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:51	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 17:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 17:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11112112201B	04/26/2011 22:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11109243201A	04/21/2011 02:41	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11112112201B	04/22/2011 13:25	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182102B	04/13/2011 13:15	Michelle L Lalli	1

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Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255798
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL014 SDG#: DE124-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039402B	04/13/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255799
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE124-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255799
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE124-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.53	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.74	1.8		1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	9.6		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.5		0.37	1.9		1
10225	PCB-1260	11096-82-5	3.7		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1

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SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255799
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE124-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.38	21.4		1
07914	Boron	7440-42-8	12.2		0.952	5.35		1
01650	Calcium	7440-70-2	9,750		6.56	21.4		1
01654	Iron	7439-89-6	26,900		5.04	21.4		1
01656	Lithium	7439-93-2	22.9		0.24	2.1		1
01657	Magnesium	7439-95-4	5,600		2.72	10.7		1
06958	Manganese	7439-96-5	375		0.0834	0.535		1
10145	Phosphorus	7723-14-0	294		0.599	10.7		1
01662	Potassium	7440-09-7	2,980		19.3	53.5		1
01667	Sodium	7440-23-5	102	J	39.9	107		1
07968	Strontium	7440-24-6	26.6		0.0663	0.535		1
06969	Tin	7440-31-5	2.95	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,280		0.414	1.09		1
10146	Zirconium	7440-67-7	2.79	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.211	J	0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.46		0.0864	0.432		2
06126	Barium	7440-39-3	119		0.117	0.432		2
06127	Beryllium	7440-41-7	0.744		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.232		0.0432	0.108		2
06131	Chromium	7440-47-3	25.2		0.130	0.432		2
06132	Cobalt	7440-48-4	9.94		0.0216	0.108		2
06133	Copper	7440-50-8	15.7		0.0706	0.428		2
06135	Lead	7439-92-1	14.1		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.331		0.0540	0.108		2
06139	Nickel	7440-02-0	18.2		0.108	0.432		2
06141	Selenium	7782-49-2	0.151	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0435	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.292		0.0324	0.108		2
06148	Vanadium	7440-62-2	45.8		0.0238	0.108		2
06149	Zinc	7440-66-6	65.5		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0241	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255799
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL017 SDG#: DE124-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	354		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011	17:03	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011	11:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011	22:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011	08:40	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011	16:06	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011	14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011	17:45	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011	17:45	John P Hook	1

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SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

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SL017 SDG#: DE124-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 09:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:45	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 17:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 20:53	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:44	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 17:14	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:53	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 17:14	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:53	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 17:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 17:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621203A	04/27/2011 01:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 03:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621203A	04/26/2011 12:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11103182103A	04/13/2011 14:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039403A	04/13/2011 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1

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Sample Description: **SL-017-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255799
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE124-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE124-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE124-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	3.6		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	4.6		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.5	J	0.74	1.9		1
10138	Naphthalene	91-20-3	1.6	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.8	J	0.74	1.9		1
10138	Pyrene	129-00-0	3.2		0.74	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1

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Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE124-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.99	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	J	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	6.1		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	9.7		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.45	1.3		1

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Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE124-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.58	22.2		1
07914	Boron	7440-42-8	11.2		0.988	5.55		1
01650	Calcium	7440-70-2	12,100		6.80	22.2		1
01654	Iron	7439-89-6	27,100		5.23	22.2		1
01656	Lithium	7439-93-2	25.2		0.24	2.2		1
01657	Magnesium	7439-95-4	6,260		2.82	11.1		1
06958	Manganese	7439-96-5	461		0.0866	0.555		1
10145	Phosphorus	7723-14-0	326		0.622	11.1		1
01662	Potassium	7440-09-7	2,640		20.0	55.5		1
01667	Sodium	7440-23-5	117		41.4	111		1
07968	Strontium	7440-24-6	27.7		0.0688	0.555		1
06969	Tin	7440-31-5	3.07	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,340		0.410	1.08		1
10146	Zirconium	7440-67-7	1.81	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.34		0.0888	0.444		2
06126	Barium	7440-39-3	98.7		0.120	0.444		2
06127	Beryllium	7440-41-7	0.705		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.211		0.0444	0.111		2
06131	Chromium	7440-47-3	24.9		0.133	0.444		2
06132	Cobalt	7440-48-4	8.17		0.0222	0.111		2
06133	Copper	7440-50-8	13.8		0.0711	0.431		2

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Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

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14420 Albemarle Point Place
Suite 210
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SL049 SDG#: DE124-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.62		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.307		0.0555	0.111		2
06139	Nickel	7440-02-0	16.8		0.111	0.444		2
06141	Selenium	7782-49-2	0.0872	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0373	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.287		0.0333	0.111		2
06148	Vanadium	7440-62-2	44.7		0.0244	0.111		2
06149	Zinc	7440-66-6	69.4		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	354		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL049 SDG#: DE124-16*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/28/2011 12:54	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11104SLB026	04/18/2011 17:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11104SLC026	04/18/2011 12:29	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11104SLC026	04/15/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11104SLB026	04/15/2011 03:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 10:41	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111050017A	04/18/2011 22:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111050017A	04/16/2011 08:40	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111110015A	04/22/2011 23:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:09	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 16:23	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111030030A	04/19/2011 23:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111110015A	04/22/2011 04:30	Roman Kuropatkin	1
10303	Terphenyls soil prep	SW-846 3550B	1	111030030A	04/14/2011 12:15	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111155708002	04/26/2011 09:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111045708003	04/22/2011 17:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06126	Barium	SW-846 6020	1	111041026003D	04/17/2011 17:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255800
LLI Group # 1241642
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/09/2011 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL049 SDG#: DE124-16*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06131	Chromium	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06133	Copper	SW-846 6020	1	111091026002A	04/20/2011 23:46	David K Beck	2
06135	Lead	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111041026003C	04/17/2011 17:17	David K Beck	2
06139	Nickel	SW-846 6020	1	111041026003A	04/17/2011 20:54	David K Beck	2
06141	Selenium	SW-846 6020	1	111041026003B	04/17/2011 17:17	David K Beck	2
06142	Silver	SW-846 6020	1	111041026003A	04/17/2011 20:54	David K Beck	2
06145	Thallium	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
06149	Zinc	SW-846 6020	1	111041026003A	04/17/2011 17:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	111045711002	04/18/2011 08:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111045708003	04/15/2011 08:50	Denise K Conners	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111155708002	04/25/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111041026003	04/15/2011 09:13	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111091026002	04/19/2011 22:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111045711002	04/15/2011 09:52	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621201B	04/25/2011 18:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11118621201A	04/28/2011 14:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621203A	04/27/2011 02:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11109243201A	04/21/2011 03:12	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621201B	04/25/2011 11:10	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11118621201A	04/28/2011 09:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621203A	04/26/2011 12:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11103182103A	04/13/2011 14:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11103039403A	04/13/2011 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11109243201A	04/19/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11104SLB026	Sample number(s): 6255782-6255796,6255798-6255800									
Acenaphthene	33	U	33.	170	ug/kg	97		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	99		75-122		
Aniline	170	U	170.	500	ug/kg	87		34-94		
Anthracene	33	U	33.	170	ug/kg	99		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	80		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	97		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	96		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	97		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	96		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	101		67-125		
Benzoic acid	170	U	170.	500	ug/kg	85		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	96		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	104		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	100		79-112		
Carbazole	33	U	33.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	86		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	100		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	92		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	77		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	104		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	33	U	33.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	97		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	81		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	99		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	87		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	97		73-115		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	106		75-117		
Fluoranthene	33	U	33.	170	ug/kg	104		78-116		
Fluorene	33	U	33.	170	ug/kg	99		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	82		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	90		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	94		64-119		
Isophorone	33	U	33.	170	ug/kg	94		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	96		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	89		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	99		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	112		66-117		
Naphthalene	33	U	33.	170	ug/kg	93		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	97		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	82		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	98		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	93		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	89		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	102		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	100		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	33	U	33.	170	ug/kg	100		77-113		
Phenol	33	U	33.	170	ug/kg	105		58-112		
Pyrene	33	U	33.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11104SLC026	Sample number(s): 6255782-6255796,6255798-6255800									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	104		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	119		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	117		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	133		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	106		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	119		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 11108SLA026	Sample number(s): 6255792-6255793,6255800									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	90		70-130		
Batch number: 111080010A	Sample number(s): 6255786-6255788,6255791-6255793,6255800									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111150004A	Sample number(s): 6255792-6255793,6255800									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111080018A	Sample number(s): 6255784,6255793									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111050017A	Sample number(s): 6255782-6255796,6255798-6255800									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	93	88	36-106	6	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111110015A	Sample number(s): 6255792-6255793,6255800									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	110		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	113		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	112		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	108		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	77		66-113		
Batch number: 111030027A	Sample number(s): 6255782-6255784									
Diethylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	102		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111030032A	Sample number(s): 6255792-6255793,6255800									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	91		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111040003A	Sample number(s): 6255785-6255796									
Diethylene glycol	5.0	U	5.0	13	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	91		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	102		75-125		
Batch number: 111050021A	Sample number(s): 6255799-6255800									
Diethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111090001A	Sample number(s): 6255798									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111030030A	Sample number(s): 6255792-6255793,6255800									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	80		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	75		75-125		
Batch number: 111041026003A	Sample number(s): 6255782-6255800									
Antimony	0.0583	U	0.0583	0.194	mg/kg	62		27-181		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	106		83-113		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	107		86-111		
Cadmium	0.0388	U	0.0388	0.0971	mg/kg	111		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	106		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	109		82-118		
Lead	0.0101	U	0.0101	0.194	mg/kg	98		83-110		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		81-110		
Silver	0.0117	U	0.0117	0.0971	mg/kg	100		81-111		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	105		83-110		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	106		87-117		
Zinc	0.544	U	0.544	2.91	mg/kg	104		81-112		
Batch number: 111041026003B	Sample number(s): 6255782-6255800									
Selenium	0.0388	U	0.0388	0.388	mg/kg	106		83-111		
Batch number: 111041026003C	Sample number(s): 6255782-6255800									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	107		78-122		
Batch number: 111041026003D	Sample number(s): 6255782-6255800									
Barium	0.105	U	0.105	0.388	mg/kg	106		81-980		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111045708003	Sample number(s): 6255782-6255800									
Aluminum	4.88	U	4.88	19.4	mg/kg	88		61-110		
Boron	0.864	U	0.864	4.85	mg/kg	93		78-110		
Calcium	6.33	J	5.95	19.4	mg/kg	95		88-110		
Iron	4.57	U	4.57	19.4	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	103		80-120		
Magnesium	2.47	U	2.47	9.71	mg/kg	92		82-110		
Manganese	0.0757	U	0.0757	0.485	mg/kg	98		89-112		
Phosphorus	1.92	J	0.544	9.71	mg/kg	106		80-120		
Potassium	17.5	U	17.5	48.5	mg/kg	93		78-110		
Sodium	36.2	U	36.2	97.1	mg/kg	94		87-110		
Strontium	0.0602	U	0.0602	0.485	mg/kg	101		86-110		
Tin	1.97	J	0.971	9.71	mg/kg	93		90-114		
Zirconium	0.816	U	0.816	4.85	mg/kg	107		80-120		
Batch number: 111045711002	Sample number(s): 6255782-6255800									
Mercury	0.0028	U	0.0028	0.0962	mg/kg	97		88-123		
Batch number: 111091026002A	Sample number(s): 6255782-6255800									
Copper	0.0660	U	0.0660	0.400	mg/kg	105		83-110		
Batch number: 111155708002	Sample number(s): 6255782-6255800									
Titanium	0.380	U	0.380	1.00	mg/kg	108		80-120		
Batch number: 11109243201A	Sample number(s): 6255782-6255795,6255797-6255800									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11111102201A	Sample number(s): 6255792-6255793,6255800									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11112112201A	Sample number(s): 6255782-6255785									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11112112201B	Sample number(s): 6255786-6255795,6255797-6255798									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11115621201A	Sample number(s): 6255782-6255791									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11115621201B	Sample number(s): 6255792-6255795,6255797-6255800									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11116621203A	Sample number(s): 6255799-6255800									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11118621201A	Sample number(s): 6255792-6255793,6255800									
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	94		90-110		
Batch number: 11103039402A	Sample number(s): 6255782-6255784									
18a pH by 9045C						100		95-105		
Batch number: 11103039402B	Sample number(s): 6255785-6255794,6255797-6255798									
18a pH by 9045C						100		95-105		
Batch number: 11103039403A	Sample number(s): 6255799-6255800									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11103182102B	Sample number(s): 6255785-6255794,6255797-6255798								
32a OR Potential					99		98-102		
Batch number: 11103182103A	Sample number(s): 6255799-6255800								
32a OR Potential					99		98-102		
Batch number: 11109182101A	Sample number(s): 6255782-6255784								
32a OR Potential					100		98-102		
Batch number: 11109162401B	Sample number(s): 6255782-6255785,6255789-6255790,6255794-6255799								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401A	Sample number(s): 6255786-6255788,6255791-6255793,6255800								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11104SLB026	Sample number(s): 6255782-6255796,6255798-6255800 UNSPK: 6255794								
Acenaphthene	82	95	75-115	15	30				
Acenaphthylene	83	96	81-110	15	30				
Aniline	65	73	35-95	12	30				
Anthracene	83	94	75-115	14	30				
Benzidine	30*	17*	35-141	54*	30				
Benzo(a)anthracene	83	93	65-122	12	30				
Benzo(a)pyrene	81	94	57-126	16	30				
Benzo(b)fluoranthene	78	84	59-125	9	30				
Benzo(g,h,i)perylene	86	101	59-127	16	30				
Benzo(k)fluoranthene	74	90	56-132	20	30				
Benzoic acid	59	73	10-173	22	30				
Benzyl alcohol	81	88	67-115	9	30				
4-Bromophenyl-phenylether	80	93	67-129	15	30				
Butylbenzylphthalate	91	102	73-134	12	30				
Di-n-butylphthalate	86	99	67-123	15	30				
Carbazole	82	93	64-120	13	30				
4-Chloro-3-methylphenol	78	87	76-110	11	30				
4-Chloroaniline	51	66	23-95	26	30				
bis(2-Chloroethoxy)methane	82	94	75-104	14	30				
bis(2-Chloroethyl)ether	84	95	60-116	13	30				
bis(2-Chloroisopropyl)ether	76	86	55-142	12	30				
2-Chloronaphthalene	83	93	50-141	12	30				
2-Chlorophenol	86	97	73-121	13	30				
4-Chlorophenyl-phenylether	78*	90	80-109	15	30				
Chrysene	82	93	62-128	14	30				
Dibenz(a,h)anthracene	85	101	65-125	18	30				
Dibenzofuran	81	93	71-112	15	30				
1,2-Dichlorobenzene	77	86	66-108	12	30				
1,3-Dichlorobenzene	78	87	63-109	11	30				

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Quality Control Summary

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Reported: 05/09/11 at 03:45 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	78	88	70-100	12	30				
3,3'-Dichlorobenzidine	66	81	16-119	21	30				
2,4-Dichlorophenol	83	95	78-117	13	30				
Diethylphthalate	80	92	66-118	15	30				
2,4-Dimethylphenol	81	94	78-110	16	30				
3,5-Dimethylphenol	88	95	70-130	9	30				
Dimethylphthalate	79	91	64-118	15	30				
4,6-Dinitro-2-methylphenol	55	68	24-116	22	30				
2,4-Dinitrophenol	40	56	20-143	34*	30				
2,4-Dinitrotoluene	77	86	73-113	12	30				
2,6-Dinitrotoluene	77	92	69-123	18	30				
1,2-Diphenylhydrazine	90	104	71-129	15	30				
bis(2-Ethylhexyl)phthalate	94	105	63-122	12	30				
Fluoranthene	81	93	73-112	13	30				
Fluorene	82	93	77-111	13	30				
Hexachlorobenzene	79	90	77-114	13	30				
Hexachlorobutadiene	78	89	62-120	14	30				
Hexachlorocyclopentadiene	36	41	10-153	13	30				
Hexachloroethane	72	80	57-109	12	30				
Indeno(1,2,3-cd)pyrene	84	98	61-126	16	30				
Isophorone	80	91	73-102	13	30				
1-Methylnaphthalene	82	93	73-112	13	30				
2-Methylnaphthalene	76	86	76-114	13	30				
2-Methylphenol	80	91	75-111	13	30				
4-Methylphenol	88	99	71-111	13	30				
Naphthalene	80	91	72-116	14	30				
2-Nitroaniline	83	97	67-125	15	30				
3-Nitroaniline	79	89	59-122	12	30				
4-Nitroaniline	64	81	52-112	24	30				
Nitrobenzene	85	96	72-106	13	30				
2-Nitrophenol	83	94	74-115	13	30				
4-Nitrophenol	78	89	54-113	13	30				
N-Nitroso-di-n-propylamine	79	89	60-116	12	30				
N-Nitrosodimethylamine	81	93	47-116	14	30				
N-Nitrosodiphenylamine	87	101	86-145	16	30				
Di-n-octylphthalate	87	98	56-126	13	30				
Pentachlorophenol	59	66	28-127	11	30				
Phenanthrene	82	94	65-125	14	30				
Phenol	85	88	58-126	5	30				
Pyrene	86	95	74-126	11	30				
1,2,4-Trichlorobenzene	83	95	72-115	14	30				
2,4,5-Trichlorophenol	81	96	78-109	17	30				
2,4,6-Trichlorophenol	85	99	77-115	16	30				
Batch number: 11104SLC026	Sample number(s): 6255782-6255796,6255798-6255800 UNSPK: 6255794								
Acenaphthene	110*	84	63-105	27	30				
Acenaphthylene	102	78	67-114	26	30				
Anthracene	106	84	60-122	24	30				
Benzo(a)anthracene	122	91	59-128	29	30				
Benzo(a)pyrene	119	87	45-138	31*	30				
Benzo(b)fluoranthene	134	101	43-155	28	30				
Benzo(g,h,i)perylene	74	53	33-141	33*	30				
Benzo(k)fluoranthene	131	88	42-144	40*	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	127	111	57-173	14	30				
Di-n-butylphthalate	126	98	65-148	25	30				
Chrysene	121	90	48-134	30	30				
Dibenz(a,h)anthracene	76	60	22-133	25	30				
Diethylphthalate	99	0*	70-136	200*	30				
Dimethylphthalate	116	0*	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	173*	139	39-167	22	30				
Fluoranthene	120	94	26-166	24	30				
Fluorene	107	83	66-122	25	30				
Indeno(1,2,3-cd)pyrene	77	59	21-143	26	30				
1-Methylnaphthalene	108	84	72-123	25	30				
2-Methylnaphthalene	96	75	64-103	25	30				
Naphthalene	104*	81	61-102	25	30				
N-Nitrosodimethylamine	104	79	48-113	27	30				
Di-n-octylphthalate	231*	200*	40-192	15	30				
Phenanthrene	106	85	12-165	22	30				
Pyrene	105	83	15-153	23	30				
Batch number: 11108SLA026	Sample number(s): 6255792-6255793,6255800 UNSPK: P255761								
N-Nitrosodimethylamine	34*	52*	70-130	38*	30				
Batch number: 111080010A	Sample number(s): 6255786-6255788,6255791-6255793,6255800 UNSPK: P255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111150004A	Sample number(s): 6255792-6255793,6255800 UNSPK: P255761								
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111080018A	Sample number(s): 6255784,6255793 UNSPK: 6255784								
6a Perchlorate EPA 6850	104	105	80-120	1	20				
Batch number: 111050017A	Sample number(s): 6255782-6255796,6255798-6255800 UNSPK: 6255794								
PCB-1016	93	95	29-146	2	50				
PCB-1260	91	70	39-149	11	50				
Batch number: 111110015A	Sample number(s): 6255792-6255793,6255800 UNSPK: P255761								
EFH (C12-C14)	224*	113	49-123	66*	20				
EFH (C15-C20)	165*	137*	49-123	14	20				
EFH (C21-C30)	144*	153*	49-123	6	20				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	95	96	49-123	1	20				
EFH (C8-C11)	93	82	49-123	12	20				
Batch number: 111030027A	Sample number(s): 6255782-6255784 UNSPK: P255761								
Diethylene glycol	94	88	59-109	7	20				
Ethylene glycol	92	82	63-107	11	20				
Propylene glycol	96	81	63-107	18	20				
Batch number: 111030032A	Sample number(s): 6255792-6255793,6255800 UNSPK: P255761								
Ethanol	66	64	48-130	2	20				
Isopropanol	70	72	12-149	3	20				
Methanol	65	52	43-138	22*	20				
Batch number: 111040003A	Sample number(s): 6255785-6255796 UNSPK: 6255794								
Diethylene glycol	61	73	59-109	17	20				
Ethylene glycol	58*	70	63-107	20	20				
Propylene glycol	62*	78	63-107	23*	20				
Batch number: 111050021A	Sample number(s): 6255799-6255800 UNSPK: P255798								
Diethylene glycol	76	84	59-109	10	20				
Ethylene glycol	81	90	63-107	9	20				
Propylene glycol	91	97	63-107	7	20				
Batch number: 111090001A	Sample number(s): 6255798 UNSPK: P259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111030030A	Sample number(s): 6255792-6255793,6255800 UNSPK: P250041								
m-Terphenyl	78	78	75-125	0	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	74*	74*	75-125	0	20				
Batch number: 111041026003A	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Antimony	16*	13*	75-125	12	20	0.112 J	0.0740 J	40* (1)	20
Arsenic	115	241*	75-125	31*	20	4.59	4.71	3	20
Beryllium	91	103	75-125	7	20	0.551	0.571	4	20
Cadmium	85	68*	75-125	11	20	0.735	0.467	45* (1)	20
Chromium	55*	79	75-125	8	20	23.9	22.5	6	20
Cobalt	104	102	75-125	2	20	9.82	14.5	39*	20
Lead	106	56*	75-125	11	20	10.6	9.32	13	20
Nickel	98	49*	75-125	15	20	24.6	36.4	39*	20
Silver	102	103	75-125	1	20	0.0585 J	0.0599 J	2 (1)	20
Thallium	107	117	75-125	6	20	0.236	0.233	2 (1)	20
Vanadium	104	147*	75-125	9	20	35.9	36.4	2	20
Zinc	110 (2)	1385 (2)	75-125	42*	20	223	283	23*	20
Batch number: 111041026003B	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Selenium	92	95	75-125	3	20	0.123 J	0.102 J	19 (1)	20
Batch number: 111041026003C	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Molybdenum	94	95	75-125	1	20	0.403	0.410	2 (1)	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111041026003D	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Barium	306 (2)	132 (2)	75-125	16	20	82.3	77.0	7	20
Batch number: 111045708003	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Aluminum	1995 (2)	2742 (2)	75-125	8	20	16,300	17,400	7	20
Boron	94	96	84-115	5	20	10.3	10.6	3 (1)	20
Calcium	-362 (2)	-374 (2)	75-125	1	20	14,100	16,000	12	20
Iron	1656 (2)	2141 (2)	75-125	2	20	20,700	22,000	6	20
Lithium	102	106	82-114	6	20	20.2	20.5	1	20
Magnesium	719 (2)	409 (2)	75-125	10	20	4,580	4,960	8	20
Manganese	140 (2)	147 (2)	75-125	2	20	277	314	12	20
Phosphorus	52 (2)	-25 (2)	75-125	16	20	459	358	25*	20
Potassium	198*	164*	75-125	6	20	2,700	3,010	11	20
Sodium	98	96	75-125	1	20	78.2 J	71.4 J	9 (1)	20
Strontium	99	102	75-115	5	20	26.2	25.8	1	20
Tin	82	84	80-110	5	20	2.46 J	2.49 J	1 (1)	20
Zirconium	97	101	75-125	6	20	1.59 J	3.05 J	63* (1)	20
Batch number: 111045711002	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Mercury	93	89	65-135	4	20	0.0032 J	0.0028 U	200* (1)	20
Batch number: 111091026002A	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Copper	99	91	75-125	5	20	12.9	12.4	4	20
Batch number: 111155708002	Sample number(s): 6255782-6255800 UNSPK: 6255794 BKG: 6255794								
Titanium	224 (2)	225 (2)	75-125	0	20	1,160	1,090	6	20
Batch number: 11109243201A	Sample number(s): 6255782-6255795,6255797-6255800 UNSPK: 6255794 BKG: 6255794								
3a Cr VI by EPA 7199	88		75-125			0.81 J	0.37 J	73* (1)	20
Batch number: 11111102201A	Sample number(s): 6255792-6255793,6255800 UNSPK: P255761 BKG: P255761								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11112112201A	Sample number(s): 6255782-6255785 UNSPK: P255761 BKG: P255761								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11112112201B	Sample number(s): 6255786-6255795,6255797-6255798 UNSPK: 6255794 BKG: 6255794								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11115621201A	Sample number(s): 6255782-6255791 UNSPK: 6255782 BKG: 6255782								
11a Anions by 300.0 - Fluoride	65*		80-120			1.6	1.5	7 (1)	20
Batch number: 11115621201B	Sample number(s): 6255792-6255795,6255797-6255800 UNSPK: 6255794 BKG: 6255794								
11a Anions by 300.0 - Fluoride	72*		80-120			1.3	2.1	44* (1)	20
Batch number: 11116621203A	Sample number(s): 6255799-6255800 UNSPK: 6255799 BKG: 6255799								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11118621201A	Sample number(s): 6255792-6255793,6255800 UNSPK: 6255800 BKG: 6255800								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Nitrate	89		80-120			1.1	J	1.1	J	5 (1)	20
Batch number: 11103039402A	Sample number(s): 6255782-6255784 BKG: P255761										
18a pH by 9045C						7.13		7.10		0	1
Batch number: 11103039402B	Sample number(s): 6255785-6255794,6255797-6255798 BKG: 6255794										
18a pH by 9045C						8.01		8.01		0	1
Batch number: 11103039403A	Sample number(s): 6255799-6255800 BKG: 6255799										
18a pH by 9045C						7.52		7.54		0	1
Batch number: 11103182102B	Sample number(s): 6255785-6255794,6255797-6255798 BKG: 6255794										
32a OR Potential						379		378		0	6
Batch number: 11103182103A	Sample number(s): 6255799-6255800 BKG: 6255799										
32a OR Potential						354		355		0	6
Batch number: 11109182101A	Sample number(s): 6255782-6255784 BKG: P255761										
32a OR Potential						143		144		1	6
Batch number: 11109162401B	Sample number(s): 6255782-6255785,6255789-6255790,6255794-6255799 BKG: 6255794										
28a Moisture Content by 160.3						13.9		14.9		7	20
Moisture Content by 160.3						13.9		14.9		7	20
Moisture Content by 160.3						13.9		14.9		7	20
Batch number: 11126162401A	Sample number(s): 6255786-6255788,6255791-6255793,6255800 BKG: P255761										
Moisture Content by 160.3						15.3		14.3		6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11104SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6255782	100	104	94	93	94	91
6255783	101	106	98	94	97	90
6255784	95	100	92	92	91	89
6255785	101	106	94	93	93	92
6255786	103	104	97	94	96	92
6255787	96	100	85	90	90	89
6255788	101	106	92	95	95	94
6255789	100	105	89	94	94	88
6255790	98	102	91	93	96	90
6255791	99	102	87	90	90	92
6255792	99	103	87	91	91	92
6255793	105	108	93	98	99	95
6255794	97	102	90	93	97	90

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Surrogate Quality Control

6255795	90	95	81	88	88	80
6255796	97	104	90	97	100	87
6255798	97	101	90	95	97	92
6255799	95	100	88	93	94	92
6255800	94	100	85	92	94	86
Blank	96	102	95	91	93	87
LCS	107	112	101	100	100	92
MS	90	95	81	88	88	80
MSD	97	104	90	97	100	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11104SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6255782	96	91	92
6255783	109	100	107
6255784	109	100	108
6255785	109	99	103
6255786	116	103	109
6255787	106	96	105
6255788	106	93	103
6255789	114	99	107
6255790	106	95	92
6255791	105	96	105
6255792	105	96	104
6255793	104	93	94
6255794	87	77	82
6255795	113	108	110
6255796	85	81	81
6255798	106	96	103
6255799	109	97	103
6255800	108	97	92
Blank	112	107	120
LCS	105	98	106
MS	113	108	110
MSD	85	81	81
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11108SLA026

	N-Nitrosodimethylamine-d6
6255792	98
6255793	96
6255800	108
Blank	86
LCS	86
MS	170*
MSD	111
Limits:	50-150

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Surrogate Quality Control

Batch number: 111050017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6255782	97	104
6255783	110	103
6255784	101	109
6255785	110	103
6255786	120	121*
6255787	99	89
6255788	98	108
6255789	94	118
6255790	94	106
6255791	92	97
6255792	96	274*
6255793	97	148*
6255794	89	94
6255795	96	101
6255796	98	103
6255798	99	98
6255799	101	101
6255800	100	97
Blank	95	106
LCS	95	108
LCSD	97	112
MS	96	101
MSD	98	103
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6255786	137
6255787	97
6255788	128
6255791	92
6255792	122
6255793	121
6255800	113
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6255792	94
6255793	93
6255800	93
Blank	100
LCS	101

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Surrogate Quality Control

MS	96
MSD	95
Limits:	64-126

Analysis Name: 21a Glycols by 8015B
Batch number: 111030027A
Tetramethylene glycol

6255782	78
6255783	86
6255784	83
Blank	114
LCS	106
MS	109
MSD	84
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111030030A
n-Triacontane-d62

6255792	64
6255793	67
6255800	70
Blank	76
LCS	76
MS	76
MSD	74
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111030032A
Acetone

6255792	70
6255793	73
6255800	76
Blank	90
LCS	90
MS	74
MSD	75
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111040003A
Tetramethylene glycol

6255785	52
6255786	61
6255787	73
6255788	67
6255789	63
6255790	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241642
Reported: 05/09/11 at 03:45 PM

Surrogate Quality Control

6255791	66
6255792	69
6255793	62
6255794	67
6255795	64
6255796	75
Blank	96
LCS	92
MS	64
MSD	75
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111050021A

	Tetramethylene glycol
6255799	92
6255800	96
Blank	100
LCS	103
MS	93
MSD	98
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

	Tetramethylene glycol
6255798	76
Blank	92
LCS	105
MS	90
MSD	86
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111110015A

	Chlorobenzene	Orthoterphenyl
6255792	70	89
6255793	76	93
6255800	77	97
Blank	89	78
LCS	76	101
MS	71	95
MSD	80	102
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1241642 6255782-800

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X								X		
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1 SS sleeve			X	X															
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1 SS sleeve			X	X															
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	1 SS sleeve			X	X															
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	1 SS sleeve			X	X															
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1 SS sleeve			X	X															
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1 SS sleeve			X	X															
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	1 SS sleeve			X	X															
SL-010-SA8N-SS-0.0-0.5	04.11.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SS-0.0-0.5	04.11.11	1255	SOIL	NONE	1 SS sleeve			X	X															
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	1 SS sleeve			X	X															
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		MS/MSD
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	2 SS sleeves			X	X															MS/MSD

Relinquished by: (*Signature*)	Date/Time 04/11/2011 / 1700	Received for Laboratory by: (*Signature*) Harry Hurlock 4/12/11 1020	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 3596; 8596 1432 3600 8695 1432 3611; 8596 1432 3780	

13013 1241642 6255782-800

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stefan Britsch

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X								X		
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	1 SS sleeve			X	X														
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X								X		
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	1 SS sleeve			X	X														
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	1 SS sleeve			X	X														

Relinquished by: (Signature) — Date/Time: 04/11/2011 / 1700 — Received for Laboratory by: (*Signature*) — Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time: 4/11/2011 — Airbill No.(s): 8695 1432 3596; 8695 1432 3600

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		**Inorganic Qualifiers**	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2011
Group Number: 1241927
SDG: DE125
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-012-SA8N-SS-0.0-0.5 Soil	6256859
SL-015-SA8N-SS-0.0-0.5 Soil	6256860
SL-016-SA8N-SS-0.0-0.5 Soil	6256861
SL-018-SA8N-SS-0.0-0.5 Soil	6256862
SL-019-SA8N-SS-0.0-0.5 Soil	6256863
SL-020-SA8N-SS-0.0-0.5 Soil	6256864
SL-021-SA8N-SS-0.0-0.5 Soil	6256865
SL-022-SA8N-SS-0.0-0.5 Soil	6256866
SL-023-SA8N-SS-0.0-0.5 Soil	6256867
SL-036-SA8N-SS-0.0-0.5 Soil	6256868
SL-047-SA8N-SS-0.0-0.5 Soil	6256869
SL-048-SA8N-SS-0.0-0.5 Soil	6256870
SL-050-SA8N-SS-0.0-0.5 Soil	6256871
SL-131-SA8N-SS-0.0-0.5 Soil	6256872
EB01-SA8N-041211 Water	6256873
SL-202-SA5A-SB-3.0-4.0 Soil	6256874
SL-206-SA5A-SB-4.0-5.0 Soil	6256875
SL-207-SA5A-SB-3.0-4.0 Soil	6256876
SL-227-SA5A-SB-3.0-4.0 Soil	6256877
SL-228-SA5A-SB-3.0-4.0 Soil	6256878
TB-041211 Water	6256879

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	189	U	189	378		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	3.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	2.5		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	6.8	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.75	1.9		1
10138	Pyrene	129-00-0	2.3		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	11		0.37	1.9		1
10225	PCB-1260	11096-82-5	3.7		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

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CDM Federal Programs Corp.
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12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	33		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. Similar results were obtained in both extracts. All results are reported from the original extract.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,000		5.59	22.2		1
07914	Boron	7440-42-8	16.1		0.989	5.56		1
01650	Calcium	7440-70-2	19,100		6.81	22.2		1
01654	Iron	7439-89-6	26,600		5.24	22.2		1
01656	Lithium	7439-93-2	22.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,690		2.82	11.1		1
06958	Manganese	7439-96-5	426		0.0867	0.556		1
10145	Phosphorus	7723-14-0	465		0.622	11.1		1
01662	Potassium	7440-09-7	5,480		20.0	55.6		1
01667	Sodium	7440-23-5	98.9	J	41.5	111		1
07968	Strontium	7440-24-6	42.9		0.0689	0.556		1
06969	Tin	7440-31-5	2.54	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,120		0.422	1.11		1
10146	Zirconium	7440-67-7	2.73	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.187 J	0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.23	0.0889	0.445		2
06126	Barium	7440-39-3	116	0.120	0.445		2
06127	Beryllium	7440-41-7	0.762	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.327	0.0445	0.111		2
06131	Chromium	7440-47-3	30.4	0.133	0.445		2
06132	Cobalt	7440-48-4	9.94	0.0222	0.111		2
06133	Copper	7440-50-8	14.7	0.0734	0.445		2
06135	Lead	7439-92-1	11.7	0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.500	0.0556	0.111		2
06139	Nickel	7440-02-0	16.6	0.111	0.445		2
06141	Selenium	7782-49-2	0.229 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0554 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.324	0.0333	0.111		2
06148	Vanadium	7440-62-2	52.7	0.0245	0.111		2
06149	Zinc	7440-66-6	77.9	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0249 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	425	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 18:54	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 21:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/19/2011 23:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 11:23	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 16:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:01	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 11:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1

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Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 10:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 19:35	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 08:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 08:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 08:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 08:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 06:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 18:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 18:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 16:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 08:39	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201A	04/21/2011 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201A	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8N-SS-0.0-0.5

LLI Sample # SW 6256859
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12501 SDG#: DE125-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	2.4		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.1	J	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.90	J	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.5	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	11		0.39	2.0		1
10225	PCB-1260	11096-82-5	3.9		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	15		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	15		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.71	22.7		1
07914	Boron	7440-42-8	17.2		1.01	5.68		1
01650	Calcium	7440-70-2	18,600		6.96	22.7		1
01654	Iron	7439-89-6	26,600		5.35	22.7		1
01656	Lithium	7439-93-2	20.9		0.25	2.3		1
01657	Magnesium	7439-95-4	6,690		2.88	11.4		1
06958	Manganese	7439-96-5	485		0.0886	0.568		1
10145	Phosphorus	7723-14-0	540		0.636	11.4		1
01662	Potassium	7440-09-7	5,390		20.4	56.8		1
01667	Sodium	7440-23-5	102	J	42.4	114		1
07968	Strontium	7440-24-6	37.6		0.0704	0.568		1
06969	Tin	7440-31-5	2.58	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,170		0.431	1.14		1
10146	Zirconium	7440-67-7	3.23	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0891	0.446		2
06126	Barium	7440-39-3	123		0.120	0.446		2
06127	Beryllium	7440-41-7	0.764		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.367		0.0446	0.111		2
06131	Chromium	7440-47-3	29.2		0.134	0.446		2
06132	Cobalt	7440-48-4	10.7		0.0223	0.111		2
06133	Copper	7440-50-8	15.7		0.0735	0.446		2
06135	Lead	7439-92-1	11.1		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.590		0.0557	0.111		2
06139	Nickel	7440-02-0	16.5		0.111	0.446		2
06141	Selenium	7782-49-2	0.227	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0593	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.330		0.0334	0.111		2
06148	Vanadium	7440-62-2	51.8		0.0245	0.111		2
06149	Zinc	7440-66-6	69.3		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0250	J	0.0033	0.116		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	444		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 22:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 01:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:26	Dustin A Underkoffler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 17:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 08:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8N-SS-0.0-0.5

LLI Sample # SW 6256860
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:35

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12502 SDG#: DE125-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	880		19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.83	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.9		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.8		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	15		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	6.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.9	J	6.9	21		1
10138	Phenanthrene	85-01-8	2.4		0.76	1.9		1
10138	Pyrene	129-00-0	6.9		0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	5.7	U	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	68		1.9	9.7		5

*=This limit was used in the evaluation of the final result
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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	20		2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.53	22.0		1
07914	Boron	7440-42-8	13.4		0.978	5.49		1
01650	Calcium	7440-70-2	8,990		6.74	22.0		1
01654	Iron	7439-89-6	22,600		5.18	22.0		1
01656	Lithium	7439-93-2	18.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,120		2.79	11.0		1
06958	Manganese	7439-96-5	399		0.0857	0.549		1
10145	Phosphorus	7723-14-0	361		0.615	11.0		1
01662	Potassium	7440-09-7	4,350		19.8	54.9		1
01667	Sodium	7440-23-5	100	J	41.0	110		1
07968	Strontium	7440-24-6	26.6		0.0681	0.549		1
06969	Tin	7440-31-5	2.56	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.418	1.10		1
10146	Zirconium	7440-67-7	2.69	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0815	J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.11		0.0905	0.453		2
06126	Barium	7440-39-3	109		0.122	0.453		2
06127	Beryllium	7440-41-7	0.694		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.342		0.0453	0.113		2
06131	Chromium	7440-47-3	26.5		0.136	0.453		2
06132	Cobalt	7440-48-4	8.89		0.0226	0.113		2
06133	Copper	7440-50-8	13.4		0.0747	0.453		2
06135	Lead	7439-92-1	13.1		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.508		0.0566	0.113		2
06139	Nickel	7440-02-0	15.1		0.113	0.453		2
06141	Selenium	7782-49-2	0.191	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0593	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.295		0.0339	0.113		2
06148	Vanadium	7440-62-2	46.3		0.0249	0.113		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	68.1		0.634	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.125		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	453		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 01:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1

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Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:36	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:22	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 18:44	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:11	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 19:52	Ashley M Adams	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8N-SS-0.0-0.5

LLI Sample # SW 6256861
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12503 SDG#: DE125-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.80	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	4.5		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.2		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.96	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.6	J	7.0	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.77	1.9		1
10138	Pyrene	129-00-0	2.0		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	16		0.39	2.0		1
10225	PCB-1260	11096-82-5	4.3		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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Analysis Report

Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.81	23.1		1
07914	Boron	7440-42-8	17.0		1.03	5.78		1
01650	Calcium	7440-70-2	28,700		7.08	23.1		1
01654	Iron	7439-89-6	27,900		5.44	23.1		1
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,860		2.93	11.6		1
06958	Manganese	7439-96-5	414		0.0901	0.578		1
10145	Phosphorus	7723-14-0	962		0.647	11.6		1
01662	Potassium	7440-09-7	5,210		20.8	57.8		1
01667	Sodium	7440-23-5	138		43.1	116		1
07968	Strontium	7440-24-6	64.9		0.0716	0.578		1
06969	Tin	7440-31-5	2.54	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,180		0.439	1.16		1
10146	Zirconium	7440-67-7	3.13	J	0.970	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0903	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0906	0.453		2
06126	Barium	7440-39-3	129		0.122	0.453		2
06127	Beryllium	7440-41-7	0.736		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.328		0.0453	0.113		2
06131	Chromium	7440-47-3	29.3		0.136	0.453		2
06132	Cobalt	7440-48-4	10.1		0.0227	0.113		2
06133	Copper	7440-50-8	14.0		0.0748	0.453		2
06135	Lead	7439-92-1	12.9		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.458		0.0566	0.113		2
06139	Nickel	7440-02-0	16.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.236	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0421	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.314		0.0340	0.113		2
06148	Vanadium	7440-62-2	51.0		0.0249	0.113		2
06149	Zinc	7440-66-6	68.6		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0408	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.2		1

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Analysis Report

Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	476	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.97	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:29	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 02:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:40	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1

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Sample Description: SL-018-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8N-SS-0.0-0.5

LLI Sample # SW 6256862
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12504 SDG#: DE125-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:18	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	199	U	199	398		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	11		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.9		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	1.1	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	10	J	7.1	21		1
10138	Phenanthrene	85-01-8	1.6	J	0.79	2.0		1
10138	Pyrene	129-00-0	3.1		0.79	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.0	U	6.0	20		5
10225	Aroclor 5442	12642-23-8	6.0	U	6.0	20		5
10225	Aroclor 5460	11126-42-4	6.0	U	6.0	20		5
10225	PCB-1016	12674-11-2	2.0	U	2.0	10		5
10225	PCB-1221	11104-28-2	2.0	U	2.0	10		5
10225	PCB-1232	11141-16-5	2.0	U	2.0	10		5
10225	PCB-1242	53469-21-9	2.0	U	2.0	10		5
10225	PCB-1248	12672-29-6	2.0	U	2.0	10		5
10225	PCB-1254	11097-69-1	36		2.0	10		5
10225	PCB-1260	11096-82-5	11		2.3	10		5
10225	PCB-1262	37324-23-5	2.0	U	2.0	10		5
10225	PCB-1268	11100-14-4	2.0	U	2.0	10		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	1.6		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	12		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	32		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	15		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.78	23.0		1
07914	Boron	7440-42-8	15.9		1.02	5.74		1
01650	Calcium	7440-70-2	14,000		7.04	23.0		1
01654	Iron	7439-89-6	28,300		5.41	23.0		1
01656	Lithium	7439-93-2	21.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,220		2.92	11.5		1
06958	Manganese	7439-96-5	463		0.0896	0.574		1
10145	Phosphorus	7723-14-0	471		0.643	11.5		1
01662	Potassium	7440-09-7	5,140		20.7	57.4		1
01667	Sodium	7440-23-5	112	J	42.8	115		1
07968	Strontium	7440-24-6	36.9		0.0712	0.574		1
06969	Tin	7440-31-5	2.45	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,120		0.437	1.15		1
10146	Zirconium	7440-67-7	3.76	J	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.50		0.0937	0.469		2
06126	Barium	7440-39-3	126		0.127	0.469		2
06127	Beryllium	7440-41-7	0.781		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.387		0.0469	0.117		2
06131	Chromium	7440-47-3	31.4		0.141	0.469		2
06132	Cobalt	7440-48-4	10.9		0.0234	0.117		2
06133	Copper	7440-50-8	13.8		0.0773	0.469		2
06135	Lead	7439-92-1	12.2		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.560		0.0586	0.117		2
06139	Nickel	7440-02-0	17.7		0.117	0.469		2
06141	Selenium	7782-49-2	0.196	J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0541	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.287		0.0351	0.117		2
06148	Vanadium	7440-62-2	55.4		0.0258	0.117		2
06149	Zinc	7440-66-6	71.9		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0499	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.0		0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	448		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 19:11	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/18/2011 23:53	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 02:39	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 13:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:45	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 17:59	Lindsey K Lafferty	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	3	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:26	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 12:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1

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Sample Description: SL-019-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8N-SS-0.0-0.5

LLI Sample # SW 6256863
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:05

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12505 SDG#: DE125-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 13:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 20:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 20:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 18:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 09:54	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	368	J	193	386		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.2	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	40		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	30		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	60		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	7.2		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	20		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.5	J	6.9	21		1
10138	Chrysene	218-01-9	45		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.3		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	66		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	6.9	21		1
10138	Phenanthrene	85-01-8	4.8		0.76	1.9		1
10138	Pyrene	129-00-0	56		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	0.76	U	0.76	3.9		2
10225	PCB-1232	11141-16-5	0.76	U	0.76	3.9		2
10225	PCB-1242	53469-21-9	0.76	U	0.76	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	33		0.76	3.9		2
10225	PCB-1260	11096-82-5	7.9		0.90	3.9		2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

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12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	15		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	37		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	14		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,000		5.82	23.1		1
07914	Boron	7440-42-8	17.1		1.03	5.79		1
01650	Calcium	7440-70-2	20,800		7.09	23.1		1
01654	Iron	7439-89-6	27,700		5.45	23.1		1
01656	Lithium	7439-93-2	23.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,980		2.94	11.6		1
06958	Manganese	7439-96-5	428		0.0903	0.579		1
10145	Phosphorus	7723-14-0	467		0.648	11.6		1
01662	Potassium	7440-09-7	5,500		20.8	57.9		1
01667	Sodium	7440-23-5	104	J	43.2	116		1
07968	Strontium	7440-24-6	48.3		0.0718	0.579		1
06969	Tin	7440-31-5	2.71	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,170		0.440	1.16		1
10146	Zirconium	7440-67-7	3.19	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.220	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

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12506 SDG#: DE125-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.43		0.0926	0.463		2
06126	Barium	7440-39-3	122		0.125	0.463		2
06127	Beryllium	7440-41-7	0.804		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.289		0.0463	0.116		2
06131	Chromium	7440-47-3	30.9		0.139	0.463		2
06132	Cobalt	7440-48-4	10.9		0.0231	0.116		2
06133	Copper	7440-50-8	15.4		0.0764	0.463		2
06135	Lead	7439-92-1	11.9		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.533		0.0579	0.116		2
06139	Nickel	7440-02-0	17.5		0.116	0.463		2
06141	Selenium	7782-49-2	0.242	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0536	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.340		0.0347	0.116		2
06148	Vanadium	7440-62-2	54.0		0.0255	0.116		2
06149	Zinc	7440-66-6	74.6		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0375	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	480		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

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12506 SDG#: DE125-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 19:27	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 00:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 03:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 14:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 01:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:17	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 06:51	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 22:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 13:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-020-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8N-SS-0.0-0.5

LLI Sample # SW 6256864
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 11:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12506 SDG#: DE125-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 13:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:09	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 10:13	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.51	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.6		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	5.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.7		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	11		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	14		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.81	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.5	J	6.7	20		1
10138	Phenanthrene	85-01-8	1.9		0.75	1.9		1
10138	Pyrene	129-00-0	11		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.8	J	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.4	U	2.4	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	24		0.37	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	16		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	45		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,500		5.52	21.9		1
07914	Boron	7440-42-8	15.1		0.976	5.49		1
01650	Calcium	7440-70-2	18,300		6.72	21.9		1
01654	Iron	7439-89-6	25,000		5.17	21.9		1
01656	Lithium	7439-93-2	20.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,140		2.79	11.0		1
06958	Manganese	7439-96-5	374		0.0856	0.549		1
10145	Phosphorus	7723-14-0	706		0.614	11.0		1
01662	Potassium	7440-09-7	4,930		19.7	54.9		1
01667	Sodium	7440-23-5	121		40.9	110		1
07968	Strontium	7440-24-6	41.7		0.0680	0.549		1
06969	Tin	7440-31-5	2.43	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,140		0.417	1.10		1

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Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.42	J	0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.84		0.0895	0.448		2
06126	Barium	7440-39-3	177		0.121	0.448		2
06127	Beryllium	7440-41-7	0.670		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.288		0.0448	0.112		2
06131	Chromium	7440-47-3	26.7		0.134	0.448		2
06132	Cobalt	7440-48-4	10.1		0.0224	0.112		2
06133	Copper	7440-50-8	13.5		0.0738	0.448		2
06135	Lead	7439-92-1	9.14		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.567		0.0559	0.112		2
06139	Nickel	7440-02-0	15.6		0.112	0.448		2
06141	Selenium	7782-49-2	0.271	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0370	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.305		0.0336	0.112		2
06148	Vanadium	7440-62-2	48.3		0.0246	0.112		2
06149	Zinc	7440-66-6	80.9		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0475	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	472		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/28/2011 13:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 00:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 03:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 14:56	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:04	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:48	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:36	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 08:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:08	Tyler O Griffin	1

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Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111050021A	04/18/2011 19:37	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 16:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111050021A	04/18/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:28	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 08:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 08:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 08:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 08:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:32	Ashley M Adams	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8N-SS-0.0-0.5

LLI Sample # SW 6256865
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12507 SDG#: DE125-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:19	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11109182101B	04/19/2011 16:30	Luz M Groff	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11109039401B	04/19/2011 16:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.5	U	19.5	39.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	1.5	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	26		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	20		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	4.8		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	14		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	33		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	1.8	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	49		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.96	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	12	J	7.0	21		1
10138	Phenanthrene	85-01-8	7.1		0.78	2.0		1
10138	Pyrene	129-00-0	51		0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1

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Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7		2
10225	Aroclor 5460	11126-42-4	3.7	J	2.3	7.7		2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0		2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0		2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0		2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0		2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0		2
10225	PCB-1254	11097-69-1	28		0.77	4.0		2
10225	PCB-1260	11096-82-5	11		0.91	4.0		2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0		2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0		2
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	1.3	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	19		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	50		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.83	23.2		1
07914	Boron	7440-42-8	15.1		1.03	5.80		1
01650	Calcium	7440-70-2	18,900		7.11	23.2		1
01654	Iron	7439-89-6	25,400		5.46	23.2		1
01656	Lithium	7439-93-2	22.6		0.26	2.3		1
01657	Magnesium	7439-95-4	6,240		2.94	11.6		1
06958	Manganese	7439-96-5	406		0.0904	0.580		1
10145	Phosphorus	7723-14-0	485		0.649	11.6		1
01662	Potassium	7440-09-7	4,790		20.9	58.0		1
01667	Sodium	7440-23-5	92.9	J	43.2	116		1
07968	Strontium	7440-24-6	37.5		0.0719	0.580		1
06969	Tin	7440-31-5	2.71	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,130		0.441	1.16		1
10146	Zirconium	7440-67-7	2.90	J	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.45		0.0937	0.468		2

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Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	127		0.126	0.468		2
06127	Beryllium	7440-41-7	0.778		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.428		0.0468	0.117		2
06131	Chromium	7440-47-3	32.1		0.141	0.468		2
06132	Cobalt	7440-48-4	12.2		0.0234	0.117		2
06133	Copper	7440-50-8	17.2		0.0773	0.468		2
06135	Lead	7439-92-1	12.1		0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.466		0.0585	0.117		2
06139	Nickel	7440-02-0	17.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.183	J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0456	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.287		0.0351	0.117		2
06148	Vanadium	7440-62-2	56.1		0.0258	0.117		2
06149	Zinc	7440-66-6	82.2		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0452	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.5		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	257		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/28/2011 14:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:06	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 04:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111160004A	04/30/2011 09:06	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:14	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 18:55	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111160004A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 08:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 19:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 16:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8N-SS-0.0-0.5

LLI Sample # SW 6256866
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12508 SDG#: DE125-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:32	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202A	04/25/2011 21:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 19:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:32	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401A	05/04/2011 19:41	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	1.1	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	4.1		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.9		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	11		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	13		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	13	J	7.0	21		1
10138	Phenanthrene	85-01-8	5.6		0.77	1.9		1
10138	Pyrene	129-00-0	11		0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	1.8	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.61	J	0.39	2.0		1

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Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.75	22.9		1
07914	Boron	7440-42-8	18.4		1.02	5.72		1
01650	Calcium	7440-70-2	8,600		7.01	22.9		1
01654	Iron	7439-89-6	30,000		5.39	22.9		1
01656	Lithium	7439-93-2	22.6		0.25	2.3		1
01657	Magnesium	7439-95-4	7,740		2.91	11.4		1
06958	Manganese	7439-96-5	491		0.0892	0.572		1
10145	Phosphorus	7723-14-0	658		0.641	11.4		1
01662	Potassium	7440-09-7	6,990		20.6	57.2		1
01667	Sodium	7440-23-5	88.1	J	42.7	114		1
07968	Strontium	7440-24-6	29.0		0.0709	0.572		1
06969	Tin	7440-31-5	2.59	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,280		0.435	1.14		1
10146	Zirconium	7440-67-7	3.19	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.37		0.0906	0.453		2
06126	Barium	7440-39-3	129		0.122	0.453		2
06127	Beryllium	7440-41-7	0.785		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.428		0.0453	0.113		2
06131	Chromium	7440-47-3	31.7		0.136	0.453		2
06132	Cobalt	7440-48-4	11.2		0.0227	0.113		2
06133	Copper	7440-50-8	17.0		0.0748	0.453		2
06135	Lead	7439-92-1	13.9		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.566		0.0566	0.113		2
06139	Nickel	7440-02-0	18.1		0.113	0.453		2
06141	Selenium	7782-49-2	0.257	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0501	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.360		0.0340	0.113		2
06148	Vanadium	7440-62-2	55.0		0.0249	0.113		2
06149	Zinc	7440-66-6	83.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0223	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:10

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	265	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.85	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 04:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 20:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1

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Sample Description: SL-023-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8N-SS-0.0-0.5

LLI Sample # SW 6256867
LLI Group # 1241927
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12509 SDG#: DE125-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 21:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 20:17	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	160	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.43	J	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	3.3		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	5.6		0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	1.8	J	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	2.9		0.81	2.0		1
10138	Pyrene	129-00-0	4.2		0.81	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	1.5	J	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.1	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1

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Analysis Report

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.48	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	28		0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. Similar results were obtained in both extracts. All results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,800		6.06	24.1		1
07914	Boron	7440-42-8	18.3		1.07	6.02		1
01650	Calcium	7440-70-2	11,800		7.38	24.1		1
01654	Iron	7439-89-6	30,800		5.67	24.1		1
01656	Lithium	7439-93-2	24.5		0.26	2.4		1
01657	Magnesium	7439-95-4	8,220		3.06	12.0		1
06958	Manganese	7439-96-5	477		0.0940	0.602		1
10145	Phosphorus	7723-14-0	596		0.675	12.0		1
01662	Potassium	7440-09-7	7,430		21.7	60.2		1
01667	Sodium	7440-23-5	85.3	J	44.9	120		1
07968	Strontium	7440-24-6	33.3		0.0747	0.602		1
06969	Tin	7440-31-5	2.85	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,290		0.458	1.20		1
10146	Zirconium	7440-67-7	3.14	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.248		0.0709	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.63		0.0945	0.472		2
06126	Barium	7440-39-3	123		0.128	0.472		2
06127	Beryllium	7440-41-7	0.810		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.382		0.0472	0.118		2
06131	Chromium	7440-47-3	33.0		0.142	0.472		2
06132	Cobalt	7440-48-4	11.3		0.0236	0.118		2
06133	Copper	7440-50-8	16.7		0.0780	0.472		2
06135	Lead	7439-92-1	14.7		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.501		0.0591	0.118		2
06139	Nickel	7440-02-0	18.9		0.118	0.472		2
06141	Selenium	7782-49-2	0.227	J	0.0472	0.472		2
06142	Silver	7440-22-4	0.0529	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.345		0.0354	0.118		2
06148	Vanadium	7440-62-2	59.2		0.0260	0.118		2
06149	Zinc	7440-66-6	83.4		0.661	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0163	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	278		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 01:58	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 10:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 20:46	Lindsey K Lafferty	1

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Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 05:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202A	04/25/2011 22:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202A	04/27/2011 20:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 10:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202A	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202A	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SS-0.0-0.5

LLI Sample # SW 6256868
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12510 SDG#: DE125-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	619		197	393		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.65	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	6.1		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	9.7		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	21		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.81	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	6.6		0.78	2.0		1
10138	Pyrene	129-00-0	15		0.78	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1

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Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	13		0.39	2.0		1
10225	PCB-1260	11096-82-5	3.2		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	3.3		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	15		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	47		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	15		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	15		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	15		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.82	23.1		1
07914	Boron	7440-42-8	17.2		1.03	5.78		1
01650	Calcium	7440-70-2	38,100		7.09	23.1		1
01654	Iron	7439-89-6	28,200		5.45	23.1		1
01656	Lithium	7439-93-2	24.7		0.25	2.3		1
01657	Magnesium	7439-95-4	7,490		2.94	11.6		1
06958	Manganese	7439-96-5	416		0.0902	0.578		1
10145	Phosphorus	7723-14-0	548		0.647	11.6		1
01662	Potassium	7440-09-7	5,580		20.8	57.8		1
01667	Sodium	7440-23-5	121		43.1	116		1
07968	Strontium	7440-24-6	71.3		0.0717	0.578		1
06969	Tin	7440-31-5	2.62	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,200		0.439	1.16		1
10146	Zirconium	7440-67-7	2.33	J	0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.56		0.0934	0.467		2

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Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	125		0.126	0.467		2
06127	Beryllium	7440-41-7	0.712		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.305		0.0467	0.117		2
06131	Chromium	7440-47-3	30.5		0.140	0.467		2
06132	Cobalt	7440-48-4	10.3		0.0234	0.117		2
06133	Copper	7440-50-8	14.1		0.0771	0.467		2
06135	Lead	7439-92-1	9.97		0.0121	0.234		2
06138	Molybdenum	7439-98-7	0.447		0.0584	0.117		2
06139	Nickel	7440-02-0	16.6		0.117	0.467		2
06141	Selenium	7782-49-2	0.216	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.0228	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.301		0.0350	0.117		2
06148	Vanadium	7440-62-2	55.6		0.0257	0.117		2
06149	Zinc	7440-66-6	76.6		0.654	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0430	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	294		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11108SLA026	04/26/2011 20:18	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 02:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 11:15	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11108SLA026	04/18/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 15:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:24	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 21:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 07:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111030032A	04/13/2011 23:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111100003A	04/20/2011 19:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 15:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111030032A	04/13/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	2	111100003A	04/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA8N-SS-0.0-0.5

LLI Sample # SW 6256869
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 13:30

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12511 SDG#: DE125-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:44	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 22:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11115621202B	04/25/2011 22:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 21:02	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:09	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,000		21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	630		1

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Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.42	U	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	0.84	U	0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	0.84	U	0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	U	0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	U	0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.6	U	7.6	23		1
10138	Di-n-butylphthalate	84-74-2	7.6	U	7.6	23		1
10138	Chrysene	218-01-9	2.0	J	0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	0.84	U	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.6	U	7.6	23		1
10138	Dimethylphthalate	131-11-3	7.6	U	7.6	23		1
10138	Fluoranthene	206-44-0	1.6	J	0.84	2.1		1
10138	Fluorene	86-73-7	0.84	U	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	U	0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	0.84	U	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	0.84	U	0.84	2.1		1
10138	Naphthalene	91-20-3	1.2	J	0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.6	U	7.6	23		1
10138	Phenanthrene	85-01-8	1.2	J	0.84	2.1		1
10138	Pyrene	129-00-0	1.5	J	0.84	2.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.2		1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.2		1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.2		1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.2		1
10225	PCB-1248	12672-29-6	0.42	U	0.42	2.2		1
10225	PCB-1254	11097-69-1	1.1	J	0.42	2.2		1
10225	PCB-1260	11096-82-5	0.50	U	0.50	2.2		1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.2		1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.2		1

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Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.4	U	6.4	16		1
08283	Ethylene glycol	107-21-1	6.4	U	6.4	16		1
08283	Propylene glycol	57-55-6	6.4	U	6.4	16		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		6.39	25.4		1
07914	Boron	7440-42-8	14.4		1.13	6.35		1
01650	Calcium	7440-70-2	13,500		7.79	25.4		1
01654	Iron	7439-89-6	26,600		5.98	25.4		1
01656	Lithium	7439-93-2	21.8		0.28	2.5		1
01657	Magnesium	7439-95-4	6,510		3.23	12.7		1
06958	Manganese	7439-96-5	445		0.0991	0.635		1
10145	Phosphorus	7723-14-0	432		0.712	12.7		1
01662	Potassium	7440-09-7	4,990		22.9	63.5		1
01667	Sodium	7440-23-5	149		47.4	127		1
07968	Strontium	7440-24-6	36.6		0.0788	0.635		1
06969	Tin	7440-31-5	2.75	J	1.27	12.7		1
06970	Titanium	7440-32-6	1,300		0.483	1.27		1
10146	Zirconium	7440-67-7	3.40	J	1.07	6.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0755	0.252		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.101	0.503		2
06126	Barium	7440-39-3	114		0.136	0.503		2
06127	Beryllium	7440-41-7	0.775		0.0201	0.126		2
06128	Cadmium	7440-43-9	0.274		0.0503	0.126		2
06131	Chromium	7440-47-3	28.3		0.151	0.503		2
06132	Cobalt	7440-48-4	10.6		0.0252	0.126		2
06133	Copper	7440-50-8	14.6		0.0830	0.503		2
06135	Lead	7439-92-1	11.0		0.0131	0.252		2
06138	Molybdenum	7439-98-7	0.596		0.0629	0.126		2
06139	Nickel	7440-02-0	15.2		0.126	0.503		2
06141	Selenium	7782-49-2	0.238	J	0.0503	0.503		2
06142	Silver	7440-22-4	0.0411	J	0.0151	0.126		2
06145	Thallium	7440-28-0	0.314		0.0377	0.126		2
06148	Vanadium	7440-62-2	50.0		0.0277	0.126		2
06149	Zinc	7440-66-6	66.8		0.705	3.77		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0036	0.124		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		1.0	1.3		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.4	U	11.4	38.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.25	1.3		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	297		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	21.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011	02:47	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011	11:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011	11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011	21:23	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011	16:25	JoElla L Rice	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011	15:32	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011	13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011	20:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011	20:49	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA8N-SS-0.0-0.5

LLI Sample # SW 6256870
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:15

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12512 SDG#: DE125-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 02:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 20:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 13:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 22:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 22:32	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 11:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.91	J	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	3.9		0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	3.7		0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	J	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	2.2		0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	2.1		0.82	2.0		1
10138	Pyrene	129-00-0	3.1		0.82	2.0		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	3.2		0.40	2.1		1

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Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.7	J	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	15		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	15		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	15		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		6.10	24.3		1
07914	Boron	7440-42-8	18.3		1.08	6.07		1
01650	Calcium	7440-70-2	22,100		7.44	24.3		1
01654	Iron	7439-89-6	28,200		5.71	24.3		1
01656	Lithium	7439-93-2	22.8		0.27	2.4		1
01657	Magnesium	7439-95-4	7,570		3.08	12.1		1
06958	Manganese	7439-96-5	440		0.0946	0.607		1
10145	Phosphorus	7723-14-0	584		0.679	12.1		1
01662	Potassium	7440-09-7	6,250		21.8	60.7		1
01667	Sodium	7440-23-5	109	J	45.3	121		1
07968	Strontium	7440-24-6	48.4		0.0752	0.607		1
06969	Tin	7440-31-5	2.69	J	1.21	12.1		1
06970	Titanium	7440-32-6	1,220		0.461	1.21		1
10146	Zirconium	7440-67-7	2.73	J	1.02	6.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.200	J	0.0707	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.39		0.0943	0.471		2
06126	Barium	7440-39-3	111		0.127	0.471		2
06127	Beryllium	7440-41-7	0.746		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.345		0.0471	0.118		2
06131	Chromium	7440-47-3	32.2		0.141	0.471		2
06132	Cobalt	7440-48-4	10.4		0.0236	0.118		2
06133	Copper	7440-50-8	15.7		0.0778	0.471		2
06135	Lead	7439-92-1	11.8		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.525		0.0589	0.118		2
06139	Nickel	7440-02-0	17.7		0.118	0.471		2
06141	Selenium	7782-49-2	0.244	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0288	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.303		0.0354	0.118		2
06148	Vanadium	7440-62-2	56.3		0.0259	0.118		2
06149	Zinc	7440-66-6	74.3		0.660	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0174 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6	0.98	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0 U	11.0	36.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 U	0.25	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	309	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 03:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 12:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 18:54	Richard A Shober	1

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Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 21:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 15:49	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 14:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 23:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 22:55	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:34	Venia B McFadden	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA8N-SS-0.0-0.5

LLI Sample # SW 6256871
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:45

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12513 SDG#: DE125-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	960	U	960	2,900		1
04688	Benzidine	92-87-5	6,700	U	6,700	19,000		1
04688	Benzoic acid	65-85-0	960	U	960	2,900		1
04688	Benzyl alcohol	100-51-6	960	U	960	2,900		1
04688	4-Bromophenyl-phenylether	101-55-3	96	U	96	960		1
04688	Carbazole	86-74-8	96	U	96	960		1
04688	4-Chloro-3-methylphenol	59-50-7	190	U	190	960		1
04688	4-Chloroaniline	106-47-8	380	U	380	960		1
04688	bis(2-Chloroethoxy)methane	111-91-1	96	U	96	960		1
04688	bis(2-Chloroethyl)ether	111-44-4	96	U	96	960		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	96	U	96	960		1
04688	2-Chloronaphthalene	91-58-7	96	U	96	960		1
04688	2-Chlorophenol	95-57-8	96	U	96	960		1
04688	4-Chlorophenyl-phenylether	7005-72-3	190	U	190	960		1
04688	Dibenzofuran	132-64-9	96	U	96	960		1
04688	1,2-Dichlorobenzene	95-50-1	96	U	96	960		1
04688	1,3-Dichlorobenzene	541-73-1	96	U	96	960		1
04688	1,4-Dichlorobenzene	106-46-7	96	U	96	960		1
04688	3,3'-Dichlorobenzidine	91-94-1	570	U	570	1,900		1
04688	2,4-Dichlorophenol	120-83-2	96	U	96	960		1
04688	2,4-Dimethylphenol	105-67-9	190	U	190	960		1
04688	3,5-Dimethylphenol	108-68-9	190	U	190	960		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	960	U	960	2,900		1
04688	2,4-Dinitrophenol	51-28-5	1,900	U	1,900	5,700		1
04688	2,4-Dinitrotoluene	121-14-2	190	U	190	960		1
04688	2,6-Dinitrotoluene	606-20-2	96	U	96	960		1
04688	1,2-Diphenylhydrazine	122-66-7	96	U	96	960		1
04688	Hexachlorobenzene	118-74-1	96	U	96	960		1
04688	Hexachlorobutadiene	87-68-3	380	U	380	960		1
04688	Hexachlorocyclopentadiene	77-47-4	960	U	960	2,900		1
04688	Hexachloroethane	67-72-1	96	U	96	960		1
04688	Isophorone	78-59-1	96	U	96	960		1
04688	2-Methylphenol	95-48-7	190	U	190	960		1
04688	4-Methylphenol	106-44-5	190	U	190	960		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	96	U	96	960		1
04688	3-Nitroaniline	99-09-2	190	U	190	960		1
04688	4-Nitroaniline	100-01-6	380	U	380	960		1
04688	Nitrobenzene	98-95-3	96	U	96	960		1
04688	2-Nitrophenol	88-75-5	96	U	96	960		1
04688	4-Nitrophenol	100-02-7	960	U	960	2,900		1
04688	N-Nitroso-di-n-propylamine	621-64-7	96	U	96	960		1
04688	N-Nitrosodiphenylamine	86-30-6	96	U	96	960		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	960	U	960	2,900		1
04688	Phenol	108-95-2	96	U	96	960		1

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Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	96	U	96	960		1
04688	2,4,5-Trichlorophenol	95-95-4	190	U	190	960		1
04688	2,4,6-Trichlorophenol	88-06-2	190	U	190	960		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.6		0.76	1.9		1
10138	Acenaphthylene	208-96-8	1.0	J	0.38	1.9		1
10138	Anthracene	120-12-7	15		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	88		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	69		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	140		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	19		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	58		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	18	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	120		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	7.2		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.9	21		1
10138	Fluoranthene	206-44-0	200		0.76	1.9		1
10138	Fluorene	86-73-7	6.3		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.76	1.9		1
10138	Naphthalene	91-20-3	3.6		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	110		0.76	1.9		1
10138	Pyrene	129-00-0	170		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	14		2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	0.76	U	0.76	3.9		2
10225	PCB-1232	11141-16-5	0.76	U	0.76	3.9		2
10225	PCB-1242	53469-21-9	0.76	U	0.76	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	31		0.76	3.9		2
10225	PCB-1260	11096-82-5	0.90	U	0.90	3.9		2

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Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	9.4		0.76	3.9		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.69	22.6		1
07914	Boron	7440-42-8	16.7		1.01	5.65		1
01650	Calcium	7440-70-2	7,320		6.93	22.6		1
01654	Iron	7439-89-6	28,600		5.33	22.6		1
01656	Lithium	7439-93-2	24.0		0.25	2.3		1
01657	Magnesium	7439-95-4	7,110		2.87	11.3		1
06958	Manganese	7439-96-5	452		0.0882	0.565		1
10145	Phosphorus	7723-14-0	501		0.633	11.3		1
01662	Potassium	7440-09-7	5,830		20.4	56.5		1
01667	Sodium	7440-23-5	93.2	J	42.2	113		1
07968	Strontium	7440-24-6	31.7		0.0701	0.565		1
06969	Tin	7440-31-5	2.84	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,320		0.430	1.13		1
10146	Zirconium	7440-67-7	2.98	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.95		0.0905	0.452		2
06126	Barium	7440-39-3	135		0.122	0.452		2
06127	Beryllium	7440-41-7	0.760		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.421		0.0452	0.113		2
06131	Chromium	7440-47-3	29.6		0.136	0.452		2
06132	Cobalt	7440-48-4	11.0		0.0226	0.113		2
06133	Copper	7440-50-8	16.1		0.0746	0.452		2
06135	Lead	7439-92-1	17.7		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.889		0.0565	0.113		2
06139	Nickel	7440-02-0	17.4		0.113	0.452		2
06141	Selenium	7782-49-2	0.221	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0658	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.334		0.0339	0.113		2
06148	Vanadium	7440-62-2	52.8		0.0249	0.113		2
06149	Zinc	7440-66-6	90.8		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0326	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	339		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011	03:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011	12:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011	11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/21/2011	13:40	Lindsey K Lafferty	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011	16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011	21:04	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-131-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA8N-SS-0.0-0.5

LLI Sample # SW 6256872
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12514 SDG#: DE125-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/25/2011 23:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 23:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 11:47	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB01-SA8N-041211 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB01-SA8N-041211 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.51	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.13	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	4.9		0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.032	U	0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	4.7		0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-octylphthalate

Reporting limits were raised due to limited sample volume.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.095	U	0.095	0.48		1
10227	Aroclor 5442	12642-23-8	0.095	U	0.095	0.48		1
10227	Aroclor 5460	11126-42-4	0.095	U	0.095	0.48		1
10227	PCB-1016	12674-11-2	0.095	U	0.095	0.48		1
10227	PCB-1221	11104-28-2	0.095	U	0.095	0.48		1
10227	PCB-1232	11141-16-5	0.19	U	0.19	0.48		1
10227	PCB-1242	53469-21-9	0.095	U	0.095	0.48		1
10227	PCB-1248	12672-29-6	0.095	U	0.095	0.48		1
10227	PCB-1254	11097-69-1	0.095	U	0.095	0.48		1
10227	PCB-1260	11096-82-5	0.14	U	0.14	0.48		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB01-SA8N-041211 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1262	37324-23-5	0.19	U	0.19	0.48		1
10227	PCB-1268	11100-14-4	0.15	U	0.15	0.48		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB01-SA8N-041211 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		ug/l		ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		Std. Units		Std. Units	Std. Units	Std. Units	
00200	18b pH by 9040B	n.a.	5.7		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11108WAC026	04/20/2011	14:27	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11106WAD026	04/18/2011	21:26	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11108WAC026	04/18/2011	22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11106WAD026	04/17/2011	11:40	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111040007A	04/19/2011	00:50	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111040007A	04/14/2011	13:45	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111081848006	04/26/2011	12:00	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111086050002D	04/19/2011	12:23	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111086050002A	04/19/2011	12:23	Choon Y Tian	1

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Analysis Report

Sample Description: **EB01-SA8N-041211 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA8N-041211

LLI Sample # WW 6256873
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 16:00

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12515 SDG#: DE125-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06033	Copper	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111086050002C	04/19/2011 12:23	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111086050002B	04/19/2011 12:23	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111086050002A	04/19/2011 12:23	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:06	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111081848006	04/18/2011 09:45	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111086050002	04/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11108196601C	04/18/2011 16:50	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 04:05	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11103196401B	04/13/2011 11:59	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11104020003A	04/14/2011 22:20	Luz M Groff	1

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Analysis Report

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.88
06192	n-Butylbenzene	104-51-8	2.2	J	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	2.1	J	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.10	J	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.88
06192	Methylene Chloride	75-09-2	2.9	J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.24	J	0.07	4.1		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.0		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.82	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,200		5.69	22.6		1
07914	Boron	7440-42-8	10.4		1.01	5.65		1
01650	Calcium	7440-70-2	2,260		6.93	22.6		1
01654	Iron	7439-89-6	27,000		5.32	22.6		1
01656	Lithium	7439-93-2	33.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,910		2.87	11.3		1
06958	Manganese	7439-96-5	370		0.0882	0.565		1
10145	Phosphorus	7723-14-0	317		0.633	11.3		1
01662	Potassium	7440-09-7	2,390		20.3	56.5		1
01667	Sodium	7440-23-5	121		42.2	113		1
07968	Strontium	7440-24-6	22.4		0.0701	0.565		1
06969	Tin	7440-31-5	2.84	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,290		0.429	1.13		1
10146	Zirconium	7440-67-7	0.949	U	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0882	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0922	0.461		2
06126	Barium	7440-39-3	133		0.124	0.461		2
06127	Beryllium	7440-41-7	0.978		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0912	J	0.0461	0.115		2
06131	Chromium	7440-47-3	25.7		0.138	0.461		2

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SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	9.18		0.0231	0.115		2
06133	Copper	7440-50-8	11.5		0.0761	0.461		2
06135	Lead	7439-92-1	8.45		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.853		0.0576	0.115		2
06139	Nickel	7440-02-0	17.1		0.115	0.461		2
06141	Selenium	7782-49-2	0.160	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0517	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.286		0.0346	0.115		2
06148	Vanadium	7440-62-2	48.1		0.0254	0.115		2
06149	Zinc	7440-66-6	68.5		0.645	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0061	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.23	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	433		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-202-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

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12516 SDG#: DE125-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 20:23	Sara E Johnson	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 13:23	Jason M Long	23.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:00	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 13:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:21	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5A-SB-3.0-4.0

LLI Sample # SW 6256874
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 14:14

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12516 SDG#: DE125-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/27/2011 23:40	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 13:08	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.56	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.44
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1

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Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.59	22.2		1
07914	Boron	7440-42-8	11.5		0.990	5.56		1
01650	Calcium	7440-70-2	2,730		6.82	22.2		1
01654	Iron	7439-89-6	28,100		5.24	22.2		1
01656	Lithium	7439-93-2	31.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,310		2.82	11.1		1
06958	Manganese	7439-96-5	354		0.0867	0.556		1
10145	Phosphorus	7723-14-0	304		0.623	11.1		1
01662	Potassium	7440-09-7	2,060		20.0	55.6		1
01667	Sodium	7440-23-5	115		41.5	111		1
07968	Strontium	7440-24-6	23.5		0.0690	0.556		1
06969	Tin	7440-31-5	2.87	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,090		0.423	1.11		1
10146	Zirconium	7440-67-7	0.934	U	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.02		0.0916	0.458		2

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Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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12517 SDG#: DE125-17

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium		7440-39-3	102	0.124	0.458		2
06127	Beryllium		7440-41-7	0.794	0.0183	0.115		2
06128	Cadmium		7440-43-9	0.0474 J	0.0458	0.115		2
06131	Chromium		7440-47-3	24.1	0.137	0.458		2
06132	Cobalt		7440-48-4	5.51	0.0229	0.115		2
06133	Copper		7440-50-8	9.63	0.0756	0.458		2
06135	Lead		7439-92-1	6.40	0.0119	0.229		2
06138	Molybdenum		7439-98-7	0.496	0.0573	0.115		2
06139	Nickel		7440-02-0	13.4	0.115	0.458		2
06141	Selenium		7782-49-2	0.0852 J	0.0458	0.458		2
06142	Silver		7440-22-4	0.0606 J	0.0137	0.115		2
06145	Thallium		7440-28-0	0.212	0.0344	0.115		2
06148	Vanadium		7440-62-2	42.5	0.0252	0.115		2
06149	Zinc		7440-66-6	52.9	0.641	3.44		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0091 J	0.0031	0.107		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.5	0.92	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3 U	10.3	34.4		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.38 J	0.23	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	434	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.82	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-206-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 20:46	Sara E Johnson	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 13:43	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:50	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 13:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:01	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5A-SB-4.0-5.0

LLI Sample # SW 6256875
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 15:25

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12517 SDG#: DE125-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:03	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 13:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101A	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401A	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.8		1
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		1
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.21	J	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	0.60	J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1

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Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1
06192	Toluene	108-88-3	0.09	U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25.56
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		5.36	21.3		1
07914	Boron	7440-42-8	9.33		0.948	5.33		1
01650	Calcium	7440-70-2	2,390		6.53	21.3		1
01654	Iron	7439-89-6	20,600		5.02	21.3		1
01656	Lithium	7439-93-2	24.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,650		2.71	10.7		1
06958	Manganese	7439-96-5	215		0.0831	0.533		1
10145	Phosphorus	7723-14-0	351		0.597	10.7		1
01662	Potassium	7440-09-7	2,240		19.2	53.3		1
01667	Sodium	7440-23-5	110		39.8	107		1
07968	Strontium	7440-24-6	16.3		0.0661	0.533		1
06969	Tin	7440-31-5	2.82	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,100		0.405	1.07		1
10146	Zirconium	7440-67-7	0.895	U	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.07		0.0878	0.439		2
06126	Barium	7440-39-3	112		0.119	0.439		2
06127	Beryllium	7440-41-7	0.936		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0820	J	0.0439	0.110		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	25.3	0.132	0.439		2
06132	Cobalt	7440-48-4	8.72	0.0220	0.110		2
06133	Copper	7440-50-8	10.6	0.0724	0.439		2
06135	Lead	7439-92-1	11.0	0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.605	0.0549	0.110		2
06139	Nickel	7440-02-0	14.0	0.110	0.439		2
06141	Selenium	7782-49-2	0.181 J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0540 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.283	0.0329	0.110		2
06148	Vanadium	7440-62-2	46.8	0.0241	0.110		2
06149	Zinc	7440-66-6	57.8	0.615	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56 J	0.22	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	300	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-207-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:08	Sara E Johnson	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:03	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 18:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 04:49	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 14:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 22:56	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:21	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:56	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-207-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5A-SB-3.0-4.0

LLI Sample # SW 6256876
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 12:03

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12518 SDG#: DE125-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:25	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 13:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5		0.97
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.97
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.97
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.97
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.97
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.97
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.97
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.97
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.97
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.97
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.97
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.97
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9		0.97
06192	Methylene Chloride	75-09-2	1.3	J	0.27	4.5		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.97

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.55	22.1		1
07914	Boron	7440-42-8	9.15		0.983	5.52		1
01650	Calcium	7440-70-2	3,350		6.77	22.1		1
01654	Iron	7439-89-6	23,500		5.20	22.1		1
01656	Lithium	7439-93-2	29.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,530		2.80	11.0		1
06958	Manganese	7439-96-5	238		0.0861	0.552		1
10145	Phosphorus	7723-14-0	369		0.618	11.0		1
01662	Potassium	7440-09-7	1,740		19.9	55.2		1
01667	Sodium	7440-23-5	130		41.2	110		1
07968	Strontium	7440-24-6	20.5		0.0684	0.552		1
06969	Tin	7440-31-5	2.66	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,130		0.420	1.10		1
10146	Zirconium	7440-67-7	0.927	U	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0825	J	0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.56		0.0918	0.459		2
06126	Barium	7440-39-3	84.6		0.124	0.459		2
06127	Beryllium	7440-41-7	0.577		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.102	J	0.0459	0.115		2
06131	Chromium	7440-47-3	23.3		0.138	0.459		2

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	6.75	0.0230	0.115		2
06133	Copper	7440-50-8	8.29	0.0758	0.459		2
06135	Lead	7439-92-1	5.48	0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.446	0.0574	0.115		2
06139	Nickel	7440-02-0	14.3	0.115	0.459		2
06141	Selenium	7782-49-2	0.0478 J	0.0459	0.459		2
06142	Silver	7440-22-4	0.0515 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.243	0.0344	0.115		2
06148	Vanadium	7440-62-2	41.1	0.0253	0.115		2
06149	Zinc	7440-66-6	53.5	0.643	3.44		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	324	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-227-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:31	Sara E Johnson	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:23	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 18:58	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 05:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 23:14	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:21	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 09:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:24	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-227-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-227-SA5A-SB-3.0-4.0

LLI Sample # SW 6256877
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 10:13

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12519 SDG#: DE125-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 00:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 00:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11113243201A	04/28/2011 13:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.86
06192	Methylene Chloride	75-09-2	4.2		0.24	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.3	U	4.3	13		18.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.72	22.8		1
07914	Boron	7440-42-8	8.56		1.01	5.69		1
01650	Calcium	7440-70-2	2,150		6.98	22.8		1
01654	Iron	7439-89-6	19,500		5.36	22.8		1
01656	Lithium	7439-93-2	21.1		0.25	2.3		1
01657	Magnesium	7439-95-4	3,650		2.89	11.4		1
06958	Manganese	7439-96-5	116		0.0888	0.569		1
10145	Phosphorus	7723-14-0	179		0.637	11.4		1
01662	Potassium	7440-09-7	1,300		20.5	56.9		1
01667	Sodium	7440-23-5	179		42.4	114		1
07968	Strontium	7440-24-6	16.1		0.0706	0.569		1
06969	Tin	7440-31-5	2.75	J	1.14	11.4		1
06970	Titanium	7440-32-6	903		0.432	1.14		1
10146	Zirconium	7440-67-7	0.956	U	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0676	U	0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0902	0.451		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	66.4	0.122	0.451		2
06127	Beryllium	7440-41-7	0.651	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0660 J	0.0451	0.113		2
06131	Chromium	7440-47-3	18.7	0.135	0.451		2
06132	Cobalt	7440-48-4	3.57	0.0225	0.113		2
06133	Copper	7440-50-8	6.85	0.0744	0.451		2
06135	Lead	7439-92-1	4.81	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.341	0.0563	0.113		2
06139	Nickel	7440-02-0	9.37	0.113	0.451		2
06141	Selenium	7782-49-2	0.0453 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0469 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.233	0.0338	0.113		2
06148	Vanadium	7440-62-2	35.2	0.0248	0.113		2
06149	Zinc	7440-66-6	38.0	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0065 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	303	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-228-SA5A-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111032AA	04/13/2011 21:53	Sara E Johnson	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 14:42	Jason M Long	18.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110324092	04/13/2011 19:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110324092	04/13/2011 19:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110324092	04/13/2011 19:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11106SLA026	04/19/2011 05:38	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11108SLD026	04/20/2011 15:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11108SLD026	04/19/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11106SLA026	04/18/2011 11:40	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:07	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111080012A	04/20/2011 23:33	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111080012A	04/18/2011 16:25	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
07914	Boron	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01654	Iron	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06969	Tin	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	111105708002	04/26/2011 03:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111105708002	04/22/2011 21:25	John P Hook	1
06124	Antimony	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111101026001D	04/21/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-228-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-228-SA5A-SB-3.0-4.0

LLI Sample # SW 6256878
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011 09:06

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12520 SDG#: DE125-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111101026001C	04/21/2011 13:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111101026001B	04/21/2011 10:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111101026001A	04/21/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111105711001	04/21/2011 07:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111105708002	04/20/2011 12:24	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111101026001	04/20/2011 13:00	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111105711001	04/20/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11115621202B	04/26/2011 01:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11116621202B	04/28/2011 01:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11113243201A	04/28/2011 15:01	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11115621202B	04/25/2011 12:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11116621202B	04/26/2011 14:10	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11113243201A	04/23/2011 05:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11111162401A	04/21/2011 20:48	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-041211 Water
SSFL Area IV Collocated Soil Sampling
TB-041211

LLI Sample # WW 6256879
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12521 SDG#: DE125-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041211 Water
SSFL Area IV Collocated Soil Sampling
TB-041211

LLI Sample # WW 6256879
LLI Group # 1241927
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/12/2011

Submitted: 04/13/2011 10:05
Reported: 05/12/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

12521 SDG#: DE125-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011 05:27	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111032AA	04/13/2011 20:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111032AA	04/13/2011 20:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y111081AA	04/18/2011 05:27	Holly Berry	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111032AA	Sample number(s): 6256874-6256878									
Acetone	6.7	U	6.7	8.0	ug/kg	83		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	105		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	121		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	88		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	78		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	88		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	104		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	101		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	98		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	77		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	99		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	76		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	89		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	97		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	96		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	94		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	89		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	100		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	94		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	90		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	104		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	92		61-134		
Methylene Chloride	1.3	J	0.24	4.0	ug/kg	104		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	107		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	92		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	97		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	92		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	98		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	91		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	95		80-120		
Batch number: E111032AA	Sample number(s): 6256879									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	113		80-123		
Batch number: E111041AA	Sample number(s): 6256874-6256878									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: Y111081AA	Sample number(s): 6256879									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11106SLA026	Sample number(s): 6256859-6256872,6256874-6256878									
Aniline	170 U		170.	500	ug/kg	52		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	82		79-117		
Carbazole	33	U	33.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	83		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	86		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	84		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	79		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	77		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	88		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	83		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	33	U	33.	170	ug/kg	83		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	78*		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	37		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	87		75-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	87		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	73		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	83		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	84		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	95		75-117		
Hexachlorobenzene	33	U	33.	170	ug/kg	83		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	75		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	81		68-105		
Isophorone	33	U	33.	170	ug/kg	83		69-110		
2-Methylphenol	67	U	67.	170	ug/kg	83		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	88		66-117		
2-Nitroaniline	33	U	33.	170	ug/kg	86		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	80		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	86		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	84		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	90		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	70		51-117		
Phenol	33	U	33.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	85		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11106WAD026	Sample number(s): 6256873									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	95	74-109	20	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	95	70-110	12	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	98	66-111	9	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	108	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	110	106	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	118	110	69-123	7	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	110	106	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	111	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	78	81	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	105	102	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	109	105	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	110	105	55-134	5	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	80	75	57-134	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	57	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	143	123	57-154	15	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	104	75-116	5	30

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.010	U	0.010	0.050	ug/l	112	101	75-114	11	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	111	107	69-124	4	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	93	71-117	14	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	83	75-115	14	30
Naphthalene	0.030	U	0.030	0.050	ug/l	103	88	72-109	15	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	89	66	36-89	30	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	154*	144	57-145	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	98	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	108	102	69-118	6	30
Batch number: 11108SLA026	Sample number(s): 6256859,6256863-6256866,6256869									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	90		70-130		
Batch number: 11108SLD026	Sample number(s): 6256859-6256872,6256874-6256878									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	109		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	103		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	105		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	114		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	110		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	110		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	125		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	123		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	110		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	116		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	139		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	111		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	112		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	116		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	103		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	126		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		56-121		
Batch number: 11108WAC026	Sample number(s): 6256873									
Aniline	1	U	1.	5	ug/l	92	88	49-101	5	30
Benzidine	20	U	20.	60	ug/l	86	77	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	40	44	10-69	12	30
Benzyl alcohol	5	U	5.	15	ug/l	87	86	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	104	82-117	6	30
Carbazole	1	U	1.	5	ug/l	98	103	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	100	100	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	88	69	42-124	24	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	106	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	102	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	97	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	68	68	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	92	95	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	97	101	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	82	87	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	88	50-119	7	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	83	66	49-111	22	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	105	80-109	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	103	104	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	96	100	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	99	102	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	97	103	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	96	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	110	118*	78-116	8	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	103	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	88	90	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	88	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	86	52-113	5	30
Isophorone	1	U	1.	5	ug/l	105	108	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	86	86	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	81	78	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	101	103	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	100	98	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	84	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	108	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	100	103	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	49	45	16-78	8	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	107	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	101	106	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	101	108	53-110	7	30
Phenol	1	U	1.	5	ug/l	40	36	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	95	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	103	79-107	7	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	103	81-113	1	30
Batch number: 111080010A	Sample number(s): 6256859,6256863-6256865,6256869									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111160004A	Sample number(s): 6256866									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	116		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	107	54-134	9	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	106	54-134	9	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	110		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100	U	100.	300	ug/kg	105		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	124*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	114		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800	U	800.	2,400	ug/kg	124*		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	91		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	114		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
Batch number: 111150004A	Sample number(s): 6256859,6256863-6256866,6256869									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111080018A	Sample number(s): 6256861,6256865,6256871,6256875,6256878									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111040007A	Sample number(s): 6256873									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	90*	92*	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	98	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	88	94	56-135	7	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111080012A	Sample number(s): 6256859-6256872,6256874-6256878									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	93	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111090022A	Sample number(s): 6256859,6256863-6256866,6256868-6256869									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		66-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.93	J	0.40	1.2	mg/kg	98		66-113		
EFH (C30 - C40)	0.92	J	0.40	1.2	mg/kg	85		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 111030032A	Sample number(s): 6256859,6256863-6256866,6256869									
Ethanol	100	U	100.	500	ug/kg	86		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	84		68-129		
Batch number: 111050021A	Sample number(s): 6256859-6256861,6256863-6256865									
Diethylene glycol	5.0	U	5.0	13	mg/kg	98		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	104		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	109		75-125		
Batch number: 111090001A	Sample number(s): 6256870-6256871									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111100003A	Sample number(s): 6256866,6256869									
Diethylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	109		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	105		75-125		
Batch number: 111040022A	Sample number(s): 6256859,6256863-6256866,6256869									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 111081848006	Sample number(s): 6256873									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	101	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	98	97	89-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	104	104	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	105	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	100	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	102	102	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	103	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	102	101	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	101	99	87-114	2	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	103	102	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 111086050002A	Sample number(s): 6256873									
Antimony	0.00030	U	0.00030	0.0010	mg/l	93	100	87-110	8	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	96	103	86-111	7	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	103	101	90-112	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	103	103	90-114	0	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	104	106	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038	U	0.00038	0.0020	mg/l	105	105	90-113	0	20
Lead	0.000052		0.00005	0.0010	mg/l	105	103	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U	2							
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	106	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	100	89-116	7	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	107	106	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 111086050002B	Sample number(s): 6256873								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	97	85-114	3	20
Batch number: 111086050002C	Sample number(s): 6256873								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 111086050002D	Sample number(s): 6256873								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	108	88-113	2	20
Batch number: 111095713004	Sample number(s): 6256873								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111101026001A	Sample number(s): 6256859-6256872,6256874-6256878								
Antimony	0.0577 U	0.0577	0.192	mg/kg	65		27-181		
Arsenic	0.0769 U	0.0769	0.385	mg/kg	96		83-113		
Beryllium	0.0154 U	0.0154	0.0962	mg/kg	100		86-111		
Cadmium	0.0385 U	0.0385	0.0962	mg/kg	101		82-118		
Chromium	0.115 U	0.115	0.385	mg/kg	105		80-120		
Cobalt	0.0192 U	0.0192	0.0962	mg/kg	106		82-118		
Copper	0.276 J	0.0635	0.385	mg/kg	85		83-110		
Lead	0.0100 U	0.0100	0.192	mg/kg	93		83-110		
Nickel	0.0962 U	0.0962	0.385	mg/kg	98		81-110		
Silver	0.0115 U	0.0115	0.0962	mg/kg	97		81-111		
Thallium	0.0288 U	0.0288	0.0962	mg/kg	95		83-110		
Vanadium	0.0212 U	0.0212	0.0962	mg/kg	105		87-117		
Zinc	0.538 U	0.538	2.88	mg/kg	101		81-112		
Batch number: 111101026001B	Sample number(s): 6256859-6256872,6256874-6256878								
Selenium	0.0385 U	0.0385	0.385	mg/kg	98		83-111		
Batch number: 111101026001C	Sample number(s): 6256859-6256872,6256874-6256878								
Molybdenum	0.0481 U	0.0481	0.0962	mg/kg	106		78-122		
Batch number: 111101026001D	Sample number(s): 6256859-6256872,6256874-6256878								
Barium	0.104 U	0.104	0.385	mg/kg	101		81-111		
Batch number: 111105708002	Sample number(s): 6256859-6256872,6256874-6256878								
Aluminum	4.98 U	4.98	19.8	mg/kg	88		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	96		78-110		
Calcium	6.07 U	6.07	19.8	mg/kg	98		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	84		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	98		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	101		89-112		
Phosphorus	1.41 J	0.554	9.90	mg/kg	100		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	97		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	101		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	102		86-110		
Tin	1.40 J	0.990	9.90	mg/kg	99		90-114		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.376	U	0.376	0.990	mg/kg	83		80-120		
Zirconium	0.832	U	0.832	4.95	mg/kg	97		80-120		
Batch number: 111105711001	Sample number(s): 6256859-6256872,6256874-6256878									
Mercury	0.0029	U	0.0029	0.0997	mg/kg	97		88-123		
Batch number: 11103196401B	Sample number(s): 6256873									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11108196601C	Sample number(s): 6256873									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	100	105	90-110	5	20
Batch number: 11111102201A	Sample number(s): 6256859									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11111102201B	Sample number(s): 6256863-6256866,6256869									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11113243201A	Sample number(s): 6256859-6256872,6256874-6256878									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	96		80-120		
Batch number: 11115196701A	Sample number(s): 6256873									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11115621202A	Sample number(s): 6256859-6256868									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11115621202B	Sample number(s): 6256869-6256872,6256874-6256878									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11116621202A	Sample number(s): 6256859-6256868									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11116621202B	Sample number(s): 6256869-6256872,6256874-6256878									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11104020003A	Sample number(s): 6256873									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11109039401B	Sample number(s): 6256859-6256865									
18a pH by 9045C						100		95-105		
Batch number: 11109182101B	Sample number(s): 6256859-6256865									
32a OR Potential						100		98-102		
Batch number: 11110039401A	Sample number(s): 6256866-6256872,6256874-6256875									
18a pH by 9045C						100		95-105		
Batch number: 11110039401B	Sample number(s): 6256876-6256878									
18a pH by 9045C						100		95-105		
Batch number: 11110182101A	Sample number(s): 6256866-6256872,6256874-6256875									
32a OR Potential						100		98-102		
Batch number: 11110182101B	Sample number(s): 6256876-6256878									
32a OR Potential						100		98-102		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11111162401A	Sample number(s): 6256860-6256862,6256867-6256868,6256870-6256872,6256874-6256878								
Moisture Content by 160.3					99		80-120		
Batch number: 11124162401A	Sample number(s): 6256866								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6256859,6256863-6256865,6256869								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111032AA	Sample number(s): 6256874-6256878 UNSPK: P255761								
Acetone	76	75	15-210	3	30				
Benzene	110	113	55-143	1	30				
Bromobenzene	108	113	43-139	2	30				
Bromochloromethane	120	118	60-137	4	30				
Bromodichloromethane	96	98	53-136	0	30				
Bromoform	86	86	38-124	2	30				
Bromomethane	78	77	42-168	4	30				
2-Butanone	81	80	37-163	2	30				
n-Butylbenzene	110	119	30-146	6	30				
sec-Butylbenzene	118	126	33-157	5	30				
tert-Butylbenzene	110	115	41-152	3	30				
Carbon Tetrachloride	102	105	45-153	1	30				
Chlorobenzene	104	108	49-135	2	30				
Chloroethane	81	81	39-152	2	30				
2-Chloroethyl Vinyl Ether	72	74	32-139	0	30				
Chloroform	104	107	61-142	1	30				
Chloromethane	96	97	51-163	1	30				
2-Chlorotoluene	110	114	42-146	2	30				
4-Chlorotoluene	108	115	39-145	4	30				
Chlorotrifluoroethene	92	89	70-130	11	30				
1,2-Dibromo-3-chloropropane	81	84	30-139	1	30				
Dibromochloromethane	90	93	51-128	1	30				
1,2-Dibromoethane	97	99	54-129	0	30				
Dibromomethane	94	95	57-130	1	30				
1,2-Dichlorobenzene	101	105	36-133	3	30				
1,3-Dichlorobenzene	104	110	34-134	4	30				
1,4-Dichlorobenzene	104	108	35-136	3	30				
Dichlorodifluoromethane	86	89	26-151	1	30				
1,1-Dichloroethane	105	109	63-142	1	30				
1,2-Dichloroethane	94	96	68-131	0	30				
1,1-Dichloroethene	118	118	61-149	2	30				
cis-1,2-Dichloroethene	107	111	60-136	1	30				
trans-1,2-Dichloroethene	110	114	59-142	2	30				
1,2-Dichloropropane	104	106	62-135	1	30				
1,3-Dichloropropane	98	100	58-129	1	30				

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Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,2-Dichloropropane	95	98	53-147	1	30				
1,1-Dichloropropene	109	109	54-145	1	30				
cis-1,3-Dichloropropene	97	99	51-131	1	30				
trans-1,3-Dichloropropene	89	91	49-129	1	30				
Ethylbenzene	107	110	44-141	2	30				
Freon 113	124	124	56-156	2	30				
Freon 133a	114	113	61-131	8	30				
Hexachlorobutadiene	95	112	10-155	15	30				
2-Hexanone	84	85	32-160	1	30				
Isopropylbenzene	109	113	38-144	2	30				
p-Isopropyltoluene	112	119	29-152	5	30				
Methyl Tertiary Butyl Ether	92	93	55-129	1	30				
4-Methyl-2-pentanone	85	83	46-139	4	30				
Methylene Chloride	106	125	61-141	14	30				
n-Propylbenzene	119	124	39-157	2	30				
Styrene	99	104	35-134	3	30				
1,1,1,2-Tetrachloroethane	98	100	52-130	0	30				
1,1,2,2-Tetrachloroethane	96	98	40-152	0	30				
Tetrachloroethene	109	113	42-149	1	30				
Toluene	108	111	50-146	2	30				
1,2,3-Trichlorobenzene	93	102	10-140	8	30				
1,2,4-Trichlorobenzene	91	98	10-136	7	30				
1,1,1-Trichloroethane	106	106	64-142	1	30				
1,1,2-Trichloroethane	99	99	54-139	2	30				
Trichloroethene	106	108	53-144	0	30				
Trichlorofluoromethane	98	99	47-163	0	30				
1,2,3-Trichloropropane	97	97	45-154	2	30				
1,2,4-Trimethylbenzene	108	114	37-149	3	30				
1,3,5-Trimethylbenzene	112	117	38-150	3	30				
Vinyl Chloride	98	99	50-154	0	30				
m+p-Xylene	106	109	44-137	1	30				
o-Xylene	102	105	42-137	1	30				
Batch number: E111032AA	Sample number(s): 6256879 UNSPK: P254390								
1,4-Dioxane	84	99	73-138	11	30				
Batch number: E111041AA	Sample number(s): 6256874-6256878 UNSPK: P255761								
1,4-Dioxane	89	98	70-130	13	30				
Batch number: 11106SLA026	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
Aniline	68	43	35-95	46*	30				
Benzidine	33*	36	35-141	10	30				
Benzoic acid	53	54	10-173	1	30				
Benzyl alcohol	83	88	67-115	6	30				
4-Bromophenyl-phenylether	88	92	67-129	4	30				
Carbazole	90	94	64-120	3	30				
4-Chloro-3-methylphenol	85	88	76-110	3	30				
4-Chloroaniline	52	19*	23-95	93*	30				
bis(2-Chloroethoxy)methane	87	93	75-104	6	30				
bis(2-Chloroethyl)ether	84	93	60-116	10	30				
bis(2-Chloroisopropyl)ether	80	86	55-142	7	30				
2-Chloronaphthalene	71	76	50-141	6	30				
2-Chlorophenol	90	96	73-121	6	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	87	90	80-109	3	30				
Dibenzofuran	87	90	71-112	3	30				
1,2-Dichlorobenzene	79	85	66-108	7	30				
1,3-Dichlorobenzene	81	88	63-109	8	30				
1,4-Dichlorobenzene	82	88	70-100	7	30				
3,3'-Dichlorobenzidine	61	39	16-119	43*	30				
2,4-Dichlorophenol	90	93	78-117	4	30				
2,4-Dimethylphenol	88	92	78-110	5	30				
3,5-Dimethylphenol	91	92	70-130	1	30				
4,6-Dinitro-2-methylphenol	73	76	24-116	4	30				
2,4-Dinitrophenol	65	65	20-143	1	30				
2,4-Dinitrotoluene	89	90	73-113	1	30				
2,6-Dinitrotoluene	88	91	69-123	4	30				
1,2-Diphenylhydrazine	97	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	105	110	63-122	4	30				
Hexachlorobenzene	87	89	77-114	3	30				
Hexachlorobutadiene	84	89	62-120	6	30				
Hexachlorocyclopentadiene	68	65	10-153	5	30				
Hexachloroethane	80	86	57-109	8	30				
Isophorone	85	89	73-102	4	30				
2-Methylphenol	85	90	75-111	6	30				
4-Methylphenol	93	94	71-111	1	30				
2-Nitroaniline	92	95	67-125	3	30				
3-Nitroaniline	86	81	59-122	7	30				
4-Nitroaniline	68	62	52-112	9	30				
Nitrobenzene	87	93	72-106	6	30				
2-Nitrophenol	88	92	74-115	4	30				
4-Nitrophenol	84	89	54-113	5	30				
N-Nitroso-di-n-propylamine	83	88	60-116	5	30				
N-Nitrosodiphenylamine	94	98	86-145	4	30				
Pentachlorophenol	69	73	28-127	5	30				
Phenol	82	87	58-126	6	30				
1,2,4-Trichlorobenzene	87	93	72-115	6	30				
2,4,5-Trichlorophenol	90	95	78-109	5	30				
2,4,6-Trichlorophenol	94	94	77-115	0	30				
Batch number: 11108SLA026	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
N-Nitrosodimethylamine	34*	52*	70-130	38*	30				
Batch number: 11108SLD026	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
Acenaphthene	106*	102	63-105	4	30				
Acenaphthylene	99	100	67-114	0	30				
Anthracene	106	105	60-122	1	30				
Benzo(a)anthracene	107	108	59-128	1	30				
Benzo(a)pyrene	105	106	45-138	0	30				
Benzo(b)fluoranthene	120	108	43-155	11	30				
Benzo(g,h,i)perylene	66	64	33-141	2	30				
Benzo(k)fluoranthene	100	112	42-144	11	30				
Butylbenzylphthalate	123	126	57-173	2	30				
Di-n-butylphthalate	130	122	65-148	6	30				
Chrysene	101	102	48-134	1	30				
Dibenz(a,h)anthracene	87	87	22-133	0	30				
Diethylphthalate	95	93	70-136	3	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dimethylphthalate	108	109	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	145	146	39-167	0	30				
Fluoranthene	111	111	26-166	0	30				
Fluorene	104	103	66-122	1	30				
Indeno(1,2,3-cd)pyrene	86	84	21-143	2	30				
1-Methylnaphthalene	102	100	72-123	2	30				
2-Methylnaphthalene	93	91	64-103	2	30				
Naphthalene	100	96	61-102	4	30				
N-Nitrosodimethylamine	101	105	48-113	4	30				
Di-n-octylphthalate	110	109	40-192	1	30				
Phenanthrene	102	101	12-165	1	30				
Pyrene	95	98	15-153	3	30				
Batch number: 111080010A	Sample number(s): 6256859,6256863-6256865,6256869 UNSPK: P255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111160004A	Sample number(s): 6256866 UNSPK: P262830								
4-Amino-2,6-Dinitrotoluene	102	108	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	100	107	80-137	6	50				
1,3-Dinitrobenzene	102	108	38-166	5	50				
2,4-Dinitrotoluene	99	105	80-131	6	50				
2,6-Dinitrotoluene	104	110	80-127	5	50				
HMX	91	99	63-128	8	50				
Nitrobenzene	98	109	80-125	11	50				
Nitroglycerin	94	99	80-120	6	50				
2-Nitrotoluene	101	106	80-122	4	50				
3-Nitrotoluene	105	110	72-119	4	50				
4-Nitrotoluene	100	104	80-125	4	50				
PETN	113	121	80-121	7	50				
RDX	93	97	75-129	5	50				
Tetryl	92	92	55-174	0	50				
1,3,5-Trinitrobenzene	99	105	82-126	6	50				
2,4,6-Trinitrotoluene	101	106	82-130	5	50				
Batch number: 111150004A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111080018A	Sample number(s): 6256861,6256865,6256871,6256875,6256878 UNSPK: P255784								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
6a Perchlorate EPA 6850	104	105	80-120	1	20				
Batch number: 111080012A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859								
PCB-1016	93	96	29-146	3	50				
PCB-1260	92	102	39-149	9	50				
Batch number: 111090022A	Sample number(s): 6256859,6256863-6256866,6256868-6256869 UNSPK: P257874								
EFH (C12-C14)	101	84	49-123	16	20				
EFH (C15-C20)	106	83	49-123	10	20				
EFH (C21-C30)	-11 (2)	-128 (2)	49-123	21*	20				
EFH (C30 - C40)	-1743 (2)	-1815 (2)	49-123	9	20				
EFH (C8-C11)	73	61	49-123	17	20				
Batch number: 111030032A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
Ethanol	66	64	48-130	2	20				
Isopropanol	70	72	12-149	3	20				
Methanol	65	52	43-138	22*	20				
Batch number: 111050021A	Sample number(s): 6256859-6256861,6256863-6256865 UNSPK: P255798								
Diethylene glycol	76	84	59-109	10	20				
Ethylene glycol	81	90	63-107	9	20				
Propylene glycol	91	97	63-107	7	20				
Batch number: 111090001A	Sample number(s): 6256870-6256871 UNSPK: P259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111100003A	Sample number(s): 6256866,6256869 UNSPK: P259058								
Diethylene glycol	78	92	59-109	16	20				
Ethylene glycol	91	95	63-107	3	20				
Propylene glycol	93	93	63-107	0	20				
Batch number: 111040022A	Sample number(s): 6256859,6256863-6256866,6256869 UNSPK: P255761								
m-Terphenyl	80	79	75-125	1	20				
o-Terphenyl	92	95	75-125	2	20				
p-Terphenyl	75	76	75-125	0	20				
Batch number: 111101026001A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Antimony	26*	18*	75-125	26*	20	0.125 J	0.111 J	12 (1)	20
Arsenic	83	70*	75-125	4	20	5.17	4.72	9	20
Beryllium	88	85	75-125	3	20	0.593	0.542	9	20
Cadmium	96	90	75-125	6	20	0.254	0.287	12 (1)	20
Chromium	111	122	75-125	3	20	23.6	22.7	4	20
Cobalt	102	101	75-125	1	20	8.96	8.88	1	20
Copper	94	79	75-125	7	20	12.0	10.8	10	20
Lead	124	124	75-125	0	20	8.09	7.35	10	20
Nickel	90	93	75-125	1	20	13.8	12.0	14	20
Silver	101	100	75-125	2	20	0.0327 J	0.0326 J	1 (1)	20
Thallium	100	112	75-125	6	20	0.270	0.275	2 (1)	20
Vanadium	131 (2)	145 (2)	75-125	2	20	42.8	40.2	6	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	56 (2)	61 (2)	75-125	1	20	71.6	75.7	6	20
Batch number: 111101026001B	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Selenium	90	88	75-125	3	20	0.240 J	0.173 J	32* (1)	20
Batch number: 111101026001C	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Molybdenum	89	86	75-125	4	20	0.501	0.439	13 (1)	20
Batch number: 111101026001D	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256865 BKG: 6256865								
Barium	21 (2)	119 (2)	75-125	6	20	157	159	2	20
Batch number: 111105708002	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859 BKG: 6256859								
Aluminum	2690 (2)	2738 (2)	75-125	1	20	21,200	20,300	4	20
Boron	95	95	84-115	2	20	14.2	14.0	1 (1)	20
Calcium	-226 (2)	168 (2)	75-125	9	20	16,900	16,900	0	20
Iron	1265 (2)	1019 (2)	75-125	1	20	23,500	26,300	11	20
Lithium	102	101	82-114	1	20	19.5	18.6	5	20
Magnesium	378 (2)	270 (2)	75-125	3	20	5,900	5,780	2	20
Manganese	122 (2)	101 (2)	75-125	2	20	376	371	1	20
Phosphorus	107 (2)	140 (2)	75-125	6	20	410	422	3	20
Potassium	151 (2)	135 (2)	75-125	2	20	4,840	4,640	4	20
Sodium	104	104	75-125	1	20	87.2 J	82.1 J	6 (1)	20
Strontium	93	95	75-115	3	20	37.9	37.5	1	20
Tin	83	83	80-110	1	20	2.24 J	2.26 J	1 (1)	20
Titanium	367 (2)	323 (2)	75-125	3	20	987	928	6	20
Zirconium	84	86	75-125	3	20	2.41 J	3.18 J	28* (1)	20
Batch number: 111105711001	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256859 BKG: 6256859								
Mercury	133	111	65-135	16	20	0.0220 J	0.0593 J	92* (1)	20
Batch number: 11111102201A	Sample number(s): 6256859 UNSPK: P255761 BKG: P255761								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11111102201B	Sample number(s): 6256863-6256866,6256869 UNSPK: 6256863 BKG: 6256863								
17a Cyanide by 9012B	107		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11113243201A	Sample number(s): 6256859-6256872,6256874-6256878 UNSPK: 6256877 BKG: 6256877								
3a Cr VI by EPA 7199	103		75-125			0.20 U	0.57 J	200* (1)	20
Batch number: 11115621202A	Sample number(s): 6256859-6256868 UNSPK: 6256859 BKG: 6256859								
11a Anions by 300.0 - Fluoride	60*		80-120			2.4	2.2	11 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			3.1	3.0	3 (1)	20
Batch number: 11115621202B	Sample number(s): 6256869-6256872,6256874-6256878 UNSPK: 6256869 BKG: 6256869								
11a Anions by 300.0 - Fluoride	80		80-120			1.3	1.4	4 (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			1.6	1.9	15 (1)	20
Batch number: 11116621202A	Sample number(s): 6256859-6256868 UNSPK: 6256859 BKG: 6256859								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116621202B	Sample number(s): 6256869-6256872,6256874-6256878					UNSPK: 6256869		BKG: 6256869	
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11109039401B	Sample number(s): 6256859-6256865					BKG: 6256865			
18a pH by 9045C						7.85	7.87	0	1
Batch number: 11109182101B	Sample number(s): 6256859-6256865					BKG: P256476			
32a OR Potential						102	99.0	3	6
Batch number: 11110039401A	Sample number(s): 6256866-6256872,6256874-6256875					BKG: 6256866			
18a pH by 9045C						7.97	7.96	0	1
Batch number: 11110039401B	Sample number(s): 6256876-6256878					BKG: P257873			
18a pH by 9045C						8.21	8.22	0	1
Batch number: 11110182101A	Sample number(s): 6256866-6256872,6256874-6256875					BKG: 6256866			
32a OR Potential						257	259	1	6
Batch number: 11110182101B	Sample number(s): 6256876-6256878					BKG: P257477			
32a OR Potential						275	275	0	6
Batch number: 11111162401A	Sample number(s): 6256860-6256862,6256867-6256868,6256870-6256872,6256874-6256878 BKG: 6256874								
Moisture Content by 160.3						14.1	13.4	5	20
Batch number: 11124162401A	Sample number(s): 6256866					BKG: P261697			
Moisture Content by 160.3						17.6	20.0	13	20
Batch number: 11126162401B	Sample number(s): 6256859,6256863-6256865,6256869					BKG: P257885			
Moisture Content by 160.3						11.5	11.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111032AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6256874	93	98	100	94
6256875	92	96	101	92
6256876	95	99	99	95
6256877	94	96	99	94
6256878	93	95	99	92
Blank	98	98	98	92
LCS	99	102	100	96
MS	97	96	100	96
MSD	96	97	101	96

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111032AA

	Toluene-d8
6256879	100
Blank	100
LCS	100
MS	100
MSD	100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111041AA

	Toluene-d8
6256874	96
6256875	97
6256876	97
6256877	97
6256878	97
Blank	97
LCS	98
LCSD	98
MS	96
MSD	96

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6256879	105	102	103	94
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11106SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256859	89	94	88	88	88	86
6256860	93	98	93	91	94	91
6256861	88	93	89	87	89	87
6256862	92	97	92	90	94	92
6256863	91	96	88	91	93	91
6256864	84	86	83	82	85	83
6256865	87	91	84	86	88	85
6256866	92	97	87	90	90	92
6256867	72	77	70	74	76	71
6256868	86	91	84	85	88	87
6256869	85	91	80	87	88	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256870	63	68	57	64	64	60
6256871	83	87	84	83	88	84
6256872	75	80	62	74	79	71
6256874	85	90	79	83	85	84
6256875	84	89	81	85	88	91
6256876	89	95	80	89	92	89
6256877	80	85	72	82	84	84
6256878	84	89	81	85	88	89
Blank	62	65	66	61	62*	60
LCS	85	90	85	84	83	76
MS	87	91	90	85	88	86
MSD	92	99	92	91	92	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11106WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256873	104	88	98
Blank	113	104	115
LCS	117	101	106
LCSD	99	90	101
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11108SLA026

	N-Nitrosodimethylamine-d6
6256859	94
6256863	92
6256864	98
6256865	106
6256866	183*
6256869	99
Blank	86
LCS	86
MS	170*
MSD	111
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11108SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256859	104	99	105
6256860	106	98	102
6256861	75	73	76
6256862	107	98	104
6256863	106	98	104
6256864	105	97	103
6256865	109	100	109
6256866	109	102	118
6256867	104	97	121

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256868	108	98	104
6256869	109	97	101
6256870	112	102	107
6256871	110	100	104
6256872	108	99	125
6256874	101	94	110
6256875	100	94	108
6256876	100	92	109
6256877	102	96	108
6256878	99	92	104
Blank	109	102	116
LCS	108	99	105
MS	106	94	96
MSD	108	99	103
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11108WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6256873	54	31	99	106	93	87
Blank	59	37	97	101	95	86
LCS	64	41	96	103	96	88
LCSD	61	39	96	109	98	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111040007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6256873	106	95
Blank	100	58
LCS	102	63
LCSD	107	83
Limits:	30-150	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6256859	116
6256863	96
6256864	135
6256865	122
6256869	113
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Batch number: 111080012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6256859	116	102
6256860	109	118
6256861	98	114
6256862	100	97
6256863	96	110
6256864	94	91
6256865	107	104
6256866	106	103
6256867	98	98
6256868	98	104
6256869	103	102
6256870	100	105
6256871	104	110
6256872	98	129*
6256874	106	94
6256875	103	105
6256876	97	105
6256877	103	111
6256878	102	104
Blank	101	114
LCS	100	112
LCSD	102	117
MS	97	100
MSD	99	104
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

	Butyraldehyde
6256859	89
6256863	101
6256864	97
6256865	97
6256866	98
6256869	93
Blank	100
LCS	101
MS	96
MSD	95
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111160004A

	2-Nitro-m-xylene
6256866	109
Blank	109
LCS	101
LCSD	107
MS	98
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111030032A

	Acetone
6256859	70
6256863	69
6256864	69
6256865	71
6256866	68
6256869	69
Blank	90
LCS	90
MS	74
MSD	75

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111040022A

	n-Triacontane-d62
6256859	89
6256863	62
6256864	63
6256865	70
6256866	68
6256869	58
Blank	82
LCS	77
MS	70
MSD	83

Limits: 50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111050021A

	Tetramethylene glycol
6256859	92
6256860	89
6256861	92
6256863	85
6256864	82
6256865	85
Blank	100
LCS	103
MS	93
MSD	98

Limits: 29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241927
Reported: 05/12/11 at 01:25 PM

Surrogate Quality Control

6256870	75
6256871	75
Blank	92
LCS	105
MS	90
MSD	86
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111090022A

	Chlorobenzene	Orthoterphenyl
6256859	56	69
6256863	60	72
6256864	62	70
6256865	61	72
6256866	58	69
6256868	62	75
6256869	60	70
Blank	64	67
LCS	66	75
MS	68	73
MSD	66	71
Limits:	37-125	47-145

Analysis Name: 21a Glycols by 8015B
Batch number: 111100003A

	Tetramethylene glycol
6256866	84
6256869	84
Blank	104
LCS	104
MS	110
MSD	91
Limits:	29-137

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acct#13013 qp#1241927 sample#6256859-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-ER EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-012-SA8N-SS-0.0-0.5	04.12.11	1035	SOIL	NONE	1 SS sleeve			X	X															
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-015-SA8N-SS-0.0-0.5	04.12.11	0935	SOIL	NONE	1 SS sleeve			X	X															
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-016-SA8N-SS-0.0-0.5	04.12.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-018-SA8N-SS-0.0-0.5	04.12.11	0900	SOIL	NONE	1 SS sleeve			X	X															
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-019-SA8N-SS-0.0-0.5	04.12.11	1105	SOIL	NONE	1 SS sleeve			X	X															
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-020-SA8N-SS-0.0-0.5	04.12.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA8N-SS-0.0-0.5	04.12.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-022-SA8N-SS-0.0-0.5	04.12.11	1350	SOIL	NONE	1 SS sleeve			X	X															
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-023-SA8N-SS-0.0-0.5	04.12.11	1410	SOIL	NONE	1 SS sleeve			X	X															
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-036-SA8N-SS-0.0-0.5	04.12.11	1425	SOIL	NONE	1 SS sleeve			X	X															
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-047-SA8N-SS-0.0-0.5	04.12.11	1330	SOIL	NONE	1 SS sleeve			X	X															
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X									X		
SL-048-SA8N-SS-0.0-0.5	04.12.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X								X		
SL-050-SA8N-SS-0.0-0.5	04.12.11	1045	SOIL	NONE	1 SS sleeve			X	X															
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
SL-131-SA8N-SS-0.0-0.5	04.12.11	1500	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) | Date/Time: 04/12/2011 / 1700 | Received for Laboratory by: (Signature) | 4/13/11 1005

Received by: (Signature) | Date/Time | Airbill No.(s): 8700 5932 3043; 8700 5932 3065; 8700 5932 3087; 8700 5932 3102

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Gp# 1241927 sample# 62256859-79

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199f	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stefan Butler																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	6-1 liter ambers			X	X	X															
EB01-SA8N-SS-041211	04.12.11	1600	WATER	NONE	1-500 mL poly		X				X	X	X												
EB01-SA8N-SS-041211	04.12.11	1600	WATER	HNO3	1-500 mL poly	X																			
Relinquished by: (Signature)	Date/Time 04/12/2011 / 1700		Received for Laboratory by: (Signature) 4/13/11 1005																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3043; 8700 5932 3065 8700 5932 3087; 8700 5932 3102																						

acct#13013 Gp#1241927 Sample#6256859-79

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals: EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs: EPA 8270C & PAHs 8270 SIM	PCBs/PCTs: EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199/ @	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols: EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-202-SA5A-SB-3.5	04.12.11	1410	SOIL	NONE	4-Encores										X	X											
SL-202-SA5A-SB-3.0-4.0	04.12.11	1414	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-206-SA5A-SB-4.5	04.12.11	1521	SOIL	NONE	4-Encores										X	X											
SL-206-SA5A-SB-4.0-5.0	04.12.11	1525	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
SL-207-SA5A-SB-3.5	04.12.11	1158	SOIL	NONE	4-Encores										X	X											
SL-207-SA5A-SB-3.0-4.0	04.12.11	1203	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-227-SA5A-SB-3.5	04.12.11	1008	SOIL	NONE	4-Encores										X	X											
SL-227-SA5A-SB-3.0-4.0	04.12.11	1013	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-228-SA5A-SB-3.5	04.12.11	0903	SOIL	NONE	4-Encores										X	X											
SL-228-SA5A-SB-3.0-4.0	04.12.11	0906	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
TB-041211	04.12.11		WATER	HCl	3-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/11/2011 / 1700 — Received for Laboratory by: (Signature) 4/13/11 1005 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8700 5932 3043; 8700 5932 3065; 8700 5932 3087; 8700 5932 3102

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/14/2011
Group Number: 1242142
SDG: DE126
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP02-SA8N-QC-041311 Soil	6257873
SL-027-SA8N-SS-0.0-0.5 Soil	6257874
SL-027-SA8N-SS-0.0-0.5MS Soil	6257875
SL-027-SA8N-SS-0.0-0.5MSD Soil	6257876
SL-027-SA8N-SS-0.0-0.5DUP Soil	6257877
SL-028-SA8N-SS-0.0-0.5 Soil	6257878
SL-032-SA8N-SS-0.0-0.5 Soil	6257879
SL-046-SA8N-SS-0.0-0.5 Soil	6257880
EB02-SA8N-SS-041311 Water	6257881
SL-060-SA5A-SB-4.0-5.0 Soil	6257882
SL-060-SA5A-SB-8.0-9.0 Soil	6257883
SL-061-SA5A-SB-4.0-5.0 Soil	6257884
SL-204-SA5A-SB-4.0-5.0 Soil	6257885
SL-205-SA5A-SB-4.0-5.0 Soil	6257886
SL-205-SA5A-SB-8.0-9.0 Soil	6257887
TB-041311 Water	6257888

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	55	J	20	200		1
04688	Benzo(a)pyrene	50-32-8	66	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	98	J	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	51	J	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	37	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	91	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Fluoranthene	206-44-0	45	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	47	J	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	67	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.63	J	0.39	2.0		1
10138	Anthracene	120-12-7	1.5	J	0.39	2.0		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	260		7.0	21		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.4	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	2.5		0.78	2.0		1
10138	Naphthalene	91-20-3	4.6		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	230		7.0	21		1
10138	Phenanthrene	85-01-8	7.3		0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	120	U	120	390		100
10225	Aroclor 5442	12642-23-8	120	U	120	390		100
10225	Aroclor 5460	11126-42-4	120	U	120	390		100
10225	PCB-1016	12674-11-2	39	U	39	200		100
10225	PCB-1221	11104-28-2	39	U	39	200		100
10225	PCB-1232	11141-16-5	39	U	39	200		100
10225	PCB-1242	53469-21-9	39	U	39	200		100
10225	PCB-1248	12672-29-6	39	U	39	200		100
10225	PCB-1254	11097-69-1	39	U	39	200		100
10225	PCB-1260	11096-82-5	46	U	46	200		100
10225	PCB-1262	37324-23-5	39	U	39	200		100
10225	PCB-1268	11100-14-4	39	U	39	200		100
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.79	23.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	15.2		1.03	5.76		1
01650	Calcium	7440-70-2	25,400		7.06	23.0		1
01654	Iron	7439-89-6	48,200		27.1	115		5
01656	Lithium	7439-93-2	21.6		0.25	2.3		1
01657	Magnesium	7439-95-4	7,060		2.93	11.5		1
06958	Manganese	7439-96-5	459		0.0899	0.576		1
10145	Phosphorus	7723-14-0	1,430		0.645	11.5		1
01662	Potassium	7440-09-7	6,340		20.7	57.6		1
01667	Sodium	7440-23-5	219		43.0	115		1
07968	Strontium	7440-24-6	112		0.0714	0.576		1
06969	Tin	7440-31-5	3.46	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,350		0.442	1.16		1
10146	Zirconium	7440-67-7	6.37		0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.738		0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0931	0.465		2
06126	Barium	7440-39-3	195		0.126	0.465		2
06127	Beryllium	7440-41-7	0.895		0.0186	0.116		2
06128	Cadmium	7440-43-9	1.31		0.0465	0.116		2
06131	Chromium	7440-47-3	36.1		0.140	0.465		2
06132	Cobalt	7440-48-4	11.4		0.0233	0.116		2
06133	Copper	7440-50-8	54.9		0.0768	0.465		2
06135	Lead	7439-92-1	29.3		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.630		0.0582	0.116		2
06139	Nickel	7440-02-0	26.0		0.116	0.465		2
06141	Selenium	7782-49-2	0.200	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.502		0.0140	0.116		2
06145	Thallium	7440-28-0	0.359		0.0349	0.116		2
06148	Vanadium	7440-62-2	63.0		0.0256	0.116		2
06149	Zinc	7440-66-6	188		0.652	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0795	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	329	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.21	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011	01:15	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011	12:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011	02:19	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011	16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011	04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/27/2011	05:02	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011	04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011	04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011	00:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011	04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011	07:02	Joanne M Gates	1

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Analysis Report

Sample Description: DUP02-SA8N-QC-041311 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8N-QC-041311

LLI Sample # SW 6257873
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2601 SDG#: DE126-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:47	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 13:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182101B	04/20/2011 09:15	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039401B	04/20/2011 09:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.51	J	0.39	2.0		1
10138	Anthracene	120-12-7	0.82	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	4.4		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	5.1		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	5.1		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	3.7		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	10		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.98	J	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		7.1	21		1
10138	Fluoranthene	206-44-0	10		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.78	2.0		1
10138	Naphthalene	91-20-3	3.9		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	4.9		0.78	2.0		1
10138	Pyrene	129-00-0	7.6		0.78	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	3.6	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	31		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	170		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.93	23.6		1
07914	Boron	7440-42-8	23.6		1.05	5.90		1
01650	Calcium	7440-70-2	26,900		7.23	23.6		1
01654	Iron	7439-89-6	29,600		5.55	23.6		1
01656	Lithium	7439-93-2	25.1		0.26	2.4		1
01657	Magnesium	7439-95-4	7,940		3.00	11.8		1
06958	Manganese	7439-96-5	444		0.0920	0.590		1
10145	Phosphorus	7723-14-0	1,580		0.660	11.8		1
01662	Potassium	7440-09-7	6,680		21.2	59.0		1
01667	Sodium	7440-23-5	219		44.0	118		1
07968	Strontium	7440-24-6	111		0.0731	0.590		1
06969	Tin	7440-31-5	3.09	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,360		0.448	1.18		1
10146	Zirconium	7440-67-7	7.09		0.991	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.678		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.19		0.0898	0.449		2
06126	Barium	7440-39-3	198		0.121	0.449		2
06127	Beryllium	7440-41-7	0.970		0.0180	0.112		2
06128	Cadmium	7440-43-9	1.30		0.0449	0.112		2
06131	Chromium	7440-47-3	39.7		0.135	0.449		2
06132	Cobalt	7440-48-4	10.7		0.0225	0.112		2
06133	Copper	7440-50-8	57.3		0.0741	0.449		2
06135	Lead	7439-92-1	31.2		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.779		0.0562	0.112		2
06139	Nickel	7440-02-0	28.5		0.112	0.449		2
06141	Selenium	7782-49-2	0.216	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.298		0.0135	0.112		2
06145	Thallium	7440-28-0	0.340		0.0337	0.112		2
06148	Vanadium	7440-62-2	65.4		0.0247	0.112		2
06149	Zinc	7440-66-6	182		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0873	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	312		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 10:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 02:38	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 09:47	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1

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Sample Description: SL-027-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 13:42	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 13:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-027-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257874
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		20	200		1
04688	Acenaphthylene	208-96-8	2,000		20	200		1
04688	Aniline	62-53-3	1,400		200	590		1
04688	Anthracene	120-12-7	2,000		20	200		1
04688	Benzidine	92-87-5	3,000	J	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000		20	200		1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		20	200		1
04688	Benzoic acid	65-85-0	910		200	590		1
04688	Benzyl alcohol	100-51-6	1,900		200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		20	200		1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200		1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200		1
04688	Carbazole	86-74-8	2,000		20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200		1
04688	4-Chloroaniline	106-47-8	1,200		79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		20	200		1
04688	2-Chloronaphthalene	91-58-7	2,000		20	200		1
04688	2-Chlorophenol	95-57-8	1,900		20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200		1
04688	Chrysene	218-01-9	2,000		20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		20	200		1
04688	Dibenzofuran	132-64-9	1,900		20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,800		20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,800		20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,800		20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,700		120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200		1
04688	Diethylphthalate	84-66-2	1,900		20	200		1
04688	2,4-Dimethylphenol	105-67-9	1,800		39	200		1
04688	3,5-Dimethylphenol	108-68-9	1,900		39	200		1
04688	Dimethylphthalate	131-11-3	1,800		20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	840		200	590		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		20	390		1
04688	Fluoranthene	206-44-0	2,000		20	200		1
04688	Fluorene	86-73-7	2,000		20	200		1
04688	Hexachlorobenzene	118-74-1	1,900		20	200		1
04688	Hexachlorobutadiene	87-68-3	1,800		79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	1,200		200	590		1
04688	Hexachloroethane	67-72-1	1,600		20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		20	200		1
04688	Isophorone	78-59-1	1,800		20	200		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,100	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	20	200		1
04688	2-Nitroaniline	88-74-4	2,000	20	200		1
04688	3-Nitroaniline	99-09-2	1,900	39	200		1
04688	4-Nitroaniline	100-01-6	1,800	79	200		1
04688	Nitrobenzene	98-95-3	1,900	20	200		1
04688	2-Nitrophenol	88-75-5	1,800	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	20	200		1
04688	Pentachlorophenol	87-86-5	1,300	200	590		1
04688	Phenanthrene	85-01-8	2,000	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1
04688	Pyrene	129-00-0	2,000	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	42	0.79	2.0		1
10138	Acenaphthylene	208-96-8	40	0.39	2.0		1
10138	Anthracene	120-12-7	39	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	42	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	40	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	47	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	25	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	42	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	47	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	47	7.1	21		1
10138	Chrysene	218-01-9	43	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	32	0.79	2.0		1
10138	Diethylphthalate	84-66-2	37	7.1	21		1
10138	Dimethylphthalate	131-11-3	42	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	64	7.1	21		1
10138	Fluoranthene	206-44-0	48	0.79	2.0		1
10138	Fluorene	86-73-7	41	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	40	0.79	2.0		1

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Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		0.79	2.0		1
10138	Naphthalene	91-20-3	41		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	41		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	55		7.1	21		1
10138	Phenanthrene	85-01-8	43		0.79	2.0		1
10138	Pyrene	129-00-0	40		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,400		5.82	23.1		1
07914	Boron	7440-42-8	238		1.03	5.78		1
01650	Calcium	7440-70-2	29,600		7.09	23.1		1
01654	Iron	7439-89-6	30,900		5.45	23.1		1
01656	Lithium	7439-93-2	144		0.25	2.3		1
01657	Magnesium	7439-95-4	8,730		2.94	11.6		1
06958	Manganese	7439-96-5	514		0.0902	0.578		1
10145	Phosphorus	7723-14-0	1,540		0.647	11.6		1
01662	Potassium	7440-09-7	8,200		20.8	57.8		1
01667	Sodium	7440-23-5	1,330		43.1	116		1
07968	Strontium	7440-24-6	222		0.0717	0.578		1
06969	Tin	7440-31-5	390		1.16	11.6		1
06970	Titanium	7440-32-6	1,780		0.439	1.16		1
10146	Zirconium	7440-67-7	111		0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.15		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0925	0.462		2
06126	Barium	7440-39-3	181		0.312	1.16		5
06127	Beryllium	7440-41-7	1.97		0.0185	0.116		2
06128	Cadmium	7440-43-9	3.04		0.0462	0.116		2
06131	Chromium	7440-47-3	53.6		0.139	0.462		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	85.4	0.0231	0.116		2
06133	Copper	7440-50-8	64.6	0.0763	0.462		2
06135	Lead	7439-92-1	38.0	0.0120	0.231		2
06138	Molybdenum	7439-98-7	14.3	0.0578	0.116		2
06139	Nickel	7440-02-0	45.5	0.116	0.462		2
06141	Selenium	7782-49-2	2.77	0.0462	0.462		2
06142	Silver	7440-22-4	14.7	0.0139	0.116		2
06145	Thallium	7440-28-0	0.916	0.0347	0.116		2
06148	Vanadium	7440-62-2	81.6	0.0254	0.116		2
06149	Zinc	7440-66-6	219	1.62	8.67		5
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.252	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.8	0.94	1.2		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	693	10.6	35.4		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	39.7	1.2	5.9		5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:27	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 10:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 02:57	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257875
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/25/2011 09:12	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/25/2011 09:12	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:26	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	05/02/2011 09:19	Venia B McFadden	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000	20	200		1
04688	Acenaphthylene	208-96-8	2,000	20	200		1
04688	Aniline	62-53-3	1,400	200	590		1
04688	Anthracene	120-12-7	2,100	20	200		1
04688	Benzidine	92-87-5	4,500	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	2,000	20	200		1
04688	Benzo(a)pyrene	50-32-8	1,900	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	1,900	20	200		1
04688	Benzoic acid	65-85-0	810	200	590		1
04688	Benzyl alcohol	100-51-6	1,900	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	2,000	20	200		1
04688	Butylbenzylphthalate	85-68-7	2,200	20	200		1
04688	Di-n-butylphthalate	84-74-2	2,100	20	200		1
04688	Carbazole	86-74-8	2,100	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000	39	200		1
04688	4-Chloroaniline	106-47-8	1,300	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	20	200		1
04688	2-Chloronaphthalene	91-58-7	2,000	20	200		1
04688	2-Chlorophenol	95-57-8	2,100	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900	39	200		1
04688	Chrysene	218-01-9	2,000	20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000	20	200		1
04688	Dibenzofuran	132-64-9	2,000	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	1,800	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	1,800	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	1,900	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,800	120	390		1
04688	2,4-Dichlorophenol	120-83-2	2,000	20	200		1
04688	Diethylphthalate	84-66-2	1,900	20	200		1
04688	2,4-Dimethylphenol	105-67-9	2,000	39	200		1
04688	3,5-Dimethylphenol	108-68-9	2,000	39	200		1
04688	Dimethylphthalate	131-11-3	1,900	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	890	200	590		1
04688	2,4-Dinitrophenol	51-28-5	1,200	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	2,000	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	1,900	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	2,200	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,300	20	390		1
04688	Fluoranthene	206-44-0	2,100	20	200		1
04688	Fluorene	86-73-7	2,000	20	200		1
04688	Hexachlorobenzene	118-74-1	1,900	20	200		1
04688	Hexachlorobutadiene	87-68-3	1,900	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	1,300	200	590		1
04688	Hexachloroethane	67-72-1	1,600	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	20	200		1
04688	Isophorone	78-59-1	1,900	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	2,000	20	200		1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200		1
04688	2-Methylphenol	95-48-7	1,900	39	200		1
04688	4-Methylphenol	106-44-5	2,100	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,900	20	200		1
04688	2-Nitroaniline	88-74-4	2,100	20	200		1
04688	3-Nitroaniline	99-09-2	2,000	39	200		1
04688	4-Nitroaniline	100-01-6	1,500	79	200		1
04688	Nitrobenzene	98-95-3	2,000	20	200		1
04688	2-Nitrophenol	88-75-5	1,900	20	200		1
04688	4-Nitrophenol	100-02-7	1,900	200	590		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	200		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	2,100	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	20	200		1
04688	Pentachlorophenol	87-86-5	1,500	200	590		1
04688	Phenanthrene	85-01-8	2,000	20	200		1
04688	Phenol	108-95-2	1,900	20	200		1
04688	Pyrene	129-00-0	2,000	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	2,000	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	2,100	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	2,100	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	42	0.79	2.0		1
10138	Acenaphthylene	208-96-8	40	0.39	2.0		1
10138	Anthracene	120-12-7	40	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	47	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	48	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	56	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	50	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	180	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	47	7.1	21		1
10138	Chrysene	218-01-9	51	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.79	2.0		1
10138	Diethylphthalate	84-66-2	37	7.1	21		1
10138	Dimethylphthalate	131-11-3	42	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	83	7.1	21		1
10138	Fluoranthene	206-44-0	56	0.79	2.0		1
10138	Fluorene	86-73-7	41	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	41	0.79	2.0		1

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Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	37		0.79	2.0		1
10138	Naphthalene	91-20-3	41		0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	39		0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	61		7.1	21		1
10138	Phenanthrene	85-01-8	44		0.79	2.0		1
10138	Pyrene	129-00-0	47		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	59	U	59	190		50
10225	Aroclor 5442	12642-23-8	59	U	59	190		50
10225	Aroclor 5460	11126-42-4	59	U	59	190		50
10225	PCB-1016	12674-11-2	19	U	19	100		50
10225	PCB-1221	11104-28-2	19	U	19	100		50
10225	PCB-1232	11141-16-5	19	U	19	100		50
10225	PCB-1242	53469-21-9	19	U	19	100		50
10225	PCB-1248	12672-29-6	19	U	19	100		50
10225	PCB-1254	11097-69-1	19	U	19	100		50
10225	PCB-1260	11096-82-5	23	U	23	100		50
10225	PCB-1262	37324-23-5	19	U	19	100		50
10225	PCB-1268	11100-14-4	19	U	19	100		50
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,600		5.82	23.1		1
07914	Boron	7440-42-8	244		1.03	5.78		1
01650	Calcium	7440-70-2	29,700		7.09	23.1		1
01654	Iron	7439-89-6	31,000		5.45	23.1		1
01656	Lithium	7439-93-2	145		0.25	2.3		1
01657	Magnesium	7439-95-4	8,700		2.94	11.6		1
06958	Manganese	7439-96-5	484		0.0902	0.578		1
10145	Phosphorus	7723-14-0	1,740		0.647	11.6		1
01662	Potassium	7440-09-7	8,390		20.8	57.8		1
01667	Sodium	7440-23-5	1,350		43.1	116		1
07968	Strontium	7440-24-6	230		0.0717	0.578		1
06969	Tin	7440-31-5	388		1.16	11.6		1
06970	Titanium	7440-32-6	1,760		0.448	1.18		1
10146	Zirconium	7440-67-7	111		0.971	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.19		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3		0.0925	0.462		2
06126	Barium	7440-39-3	199		0.125	0.462		2
06127	Beryllium	7440-41-7	1.94		0.0185	0.116		2
06128	Cadmium	7440-43-9	2.63		0.0462	0.116		2
06131	Chromium	7440-47-3	57.9		0.139	0.462		2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	77.9	0.0231	0.116		2
06133	Copper	7440-50-8	70.8	0.0763	0.462		2
06135	Lead	7439-92-1	35.3	0.0120	0.231		2
06138	Molybdenum	7439-98-7	13.7	0.0578	0.116		2
06139	Nickel	7440-02-0	46.9	0.116	0.462		2
06141	Selenium	7782-49-2	2.76	0.0462	0.462		2
06142	Silver	7440-22-4	13.3	0.0139	0.116		2
06145	Thallium	7440-28-0	0.927	0.0347	0.116		2
06148	Vanadium	7440-62-2	75.0	0.0254	0.116		2
06149	Zinc	7440-66-6	207	1.62	8.67		5
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.259	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 00:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 11:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 03:15	Lindsey K Lafferty	50
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257876
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/25/2011 09:14	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.76	22.9		1
07914	Boron	7440-42-8	23.4		1.02	5.72		1
01650	Calcium	7440-70-2	26,900		7.02	22.9		1
01654	Iron	7439-89-6	29,500		5.39	22.9		1
01656	Lithium	7439-93-2	24.8		0.25	2.3		1
01657	Magnesium	7439-95-4	7,860		2.91	11.4		1
06958	Manganese	7439-96-5	470		0.0893	0.572		1
10145	Phosphorus	7723-14-0	1,530		0.641	11.4		1
01662	Potassium	7440-09-7	6,580		20.6	57.2		1
01667	Sodium	7440-23-5	211		42.7	114		1
07968	Strontium	7440-24-6	110		0.0710	0.572		1
06969	Tin	7440-31-5	2.75	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,400		0.444	1.17		1
10146	Zirconium	7440-67-7	7.41		0.962	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.571		0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.48		0.0916	0.458		2
06126	Barium	7440-39-3	147		0.124	0.458		2
06127	Beryllium	7440-41-7	0.783		0.0183	0.114		2
06128	Cadmium	7440-43-9	1.23		0.0458	0.114		2
06131	Chromium	7440-47-3	30.6		0.137	0.458		2
06132	Cobalt	7440-48-4	8.08		0.0229	0.114		2
06133	Copper	7440-50-8	42.2		0.0756	0.458		2
06135	Lead	7439-92-1	22.7		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.597		0.0572	0.114		2
06139	Nickel	7440-02-0	22.3		0.114	0.458		2
06141	Selenium	7782-49-2	0.168	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.256		0.0137	0.114		2
06145	Thallium	7440-28-0	0.276		0.0343	0.114		2
06148	Vanadium	7440-62-2	51.5		0.0252	0.114		2
06149	Zinc	7440-66-6	147		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184		0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.24	1.2		1

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Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	313	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 04:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 06:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SS-0.0-0.5

LLI Sample # SW 6257877
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:10

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2602 SDG#: DE126-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/25/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/25/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 02:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 14:04	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 14:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzo(a)anthracene	56-55-3	22	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	24	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Chrysene	218-01-9	28	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	400		1
04688	Fluoranthene	206-44-0	34	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	28	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.56	J	0.40	2.0		1
10138	Anthracene	120-12-7	1.7	J	0.40	2.0		1
10138	Benzo(a)pyrene	50-32-8	10		0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	6.4		0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	7.5		0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.2		0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.6	J	0.80	2.0		1
10138	Naphthalene	91-20-3	2.5		0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	7.0		0.80	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1,200	U	1,200	4,000		1000
10225	Aroclor 5442	12642-23-8	1,200	U	1,200	4,000		1000
10225	Aroclor 5460	11126-42-4	1,200	U	1,200	4,000		1000
10225	PCB-1016	12674-11-2	400	U	400	2,100		1000
10225	PCB-1221	11104-28-2	400	U	400	2,100		1000
10225	PCB-1232	11141-16-5	400	U	400	2,100		1000
10225	PCB-1242	53469-21-9	400	U	400	2,100		1000
10225	PCB-1248	12672-29-6	400	U	400	2,100		1000
10225	PCB-1254	11097-69-1	400	U	400	2,100		1000
10225	PCB-1260	11096-82-5	470	U	470	2,100		1000
10225	PCB-1262	37324-23-5	400	U	400	2,100		1000
10225	PCB-1268	11100-14-4	400	U	400	2,100		1000
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
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E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.4	U	2.4	7.1		5
10199	EFH (C15-C20)	n.a.	2.4	U	2.4	7.1		5
10199	EFH (C21-C30)	n.a.	31		2.4	7.1		5
10199	EFH (C30 - C40)	n.a.	100		2.4	7.1		5
10199	EFH (C8-C11)	n.a.	2.4	U	2.4	7.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		6.03	24.0		1
07914	Boron	7440-42-8	12.5		1.07	5.99		1
01650	Calcium	7440-70-2	18,700		7.35	24.0		1
01654	Iron	7439-89-6	25,300		5.65	24.0		1
01656	Lithium	7439-93-2	22.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,090		3.04	12.0		1
06958	Manganese	7439-96-5	383		0.0935	0.599		1
10145	Phosphorus	7723-14-0	874		0.671	12.0		1
01662	Potassium	7440-09-7	5,870		21.6	59.9		1
01667	Sodium	7440-23-5	138		44.7	120		1
07968	Strontium	7440-24-6	66.0		0.0743	0.599		1
06969	Tin	7440-31-5	2.74	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,390		0.447	1.18		1
10146	Zirconium	7440-67-7	4.91	J	1.01	5.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.240		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.05		0.0922	0.461		2
06126	Barium	7440-39-3	114		0.125	0.461		2
06127	Beryllium	7440-41-7	0.630		0.0184	0.115		2
06128	Cadmium	7440-43-9	1.14		0.0461	0.115		2
06131	Chromium	7440-47-3	25.0		0.138	0.461		2
06132	Cobalt	7440-48-4	7.61		0.0231	0.115		2
06133	Copper	7440-50-8	27.0		0.0761	0.461		2
06135	Lead	7439-92-1	22.8		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.495		0.0577	0.115		2
06139	Nickel	7440-02-0	17.5		0.115	0.461		2
06141	Selenium	7782-49-2	0.177	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0961	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.278		0.0346	0.115		2
06148	Vanadium	7440-62-2	43.2		0.0254	0.115		2
06149	Zinc	7440-66-6	125		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0341	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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E2603 SDG#: DE126-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.24	1.2		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	325		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 01:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 12:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 03:34	Lindsey K Lafferty	1000
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 10:20	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 00:58	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/22/2011 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 15:10	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-028-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SS-0.0-0.5

LLI Sample # SW 6257878
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 10:30

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2603 SDG#: DE126-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.51	J	0.36	1.8		1
10138	Anthracene	120-12-7	1.3	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.1		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.1		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.8		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	9.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	17		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.72	1.8		1
10138	Naphthalene	91-20-3	2.0		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	6.5		0.72	1.8		1
10138	Pyrene	129-00-0	14		0.72	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	110	U	110	360		100
10225	Aroclor 5442	12642-23-8	110	U	110	360		100
10225	Aroclor 5460	11126-42-4	110	U	110	360		100
10225	PCB-1016	12674-11-2	36	U	36	180		100
10225	PCB-1221	11104-28-2	36	U	36	180		100
10225	PCB-1232	11141-16-5	36	U	36	180		100
10225	PCB-1242	53469-21-9	36	U	36	180		100
10225	PCB-1248	12672-29-6	36	U	36	180		100
10225	PCB-1254	11097-69-1	36	U	36	180		100
10225	PCB-1260	11096-82-5	42	U	42	180		100
10225	PCB-1262	37324-23-5	36	U	36	180		100
10225	PCB-1268	11100-14-4	36	U	36	180		100

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	31		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	96		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,100		5.38	21.4		1
07914	Boron	7440-42-8	6.94		0.952	5.35		1
01650	Calcium	7440-70-2	7,260		6.55	21.4		1
01654	Iron	7439-89-6	22,900		5.04	21.4		1
01656	Lithium	7439-93-2	21.4		0.24	2.1		1
01657	Magnesium	7439-95-4	5,220		2.72	10.7		1
06958	Manganese	7439-96-5	306		0.0834	0.535		1
10145	Phosphorus	7723-14-0	552		0.599	10.7		1
01662	Potassium	7440-09-7	4,580		19.2	53.5		1
01667	Sodium	7440-23-5	167		39.9	107		1
07968	Strontium	7440-24-6	30.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.71	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,270		0.398	1.05		1
10146	Zirconium	7440-67-7	3.82	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.70		0.0855	0.428		2
06126	Barium	7440-39-3	137		0.115	0.428		2
06127	Beryllium	7440-41-7	0.894		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.274		0.0428	0.107		2
06131	Chromium	7440-47-3	28.9		0.128	0.428		2
06132	Cobalt	7440-48-4	11.2		0.0214	0.107		2
06133	Copper	7440-50-8	20.1		0.0706	0.428		2
06135	Lead	7439-92-1	15.2		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.687		0.0535	0.107		2
06139	Nickel	7440-02-0	19.8		0.107	0.428		2
06141	Selenium	7782-49-2	0.151	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0537	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.475		0.0321	0.107		2
06148	Vanadium	7440-62-2	52.9		0.0235	0.107		2
06149	Zinc	7440-66-6	99.9		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0494	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	319		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011	02:04	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011	13:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011	03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011	19:13	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011	03:52	Lindsey K Lafferty	100
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011	16:10	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 10:52	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/25/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 15:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 15:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SS-0.0-0.5

LLI Sample # SW 6257879
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:55

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2604 SDG#: DE126-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.59	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	11		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.3	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	6.2		0.73	1.8		1
10138	Pyrene	129-00-0	7.4		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.5	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	25		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	96		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.52	22.0		1
07914	Boron	7440-42-8	9.50		0.977	5.49		1
01650	Calcium	7440-70-2	8,440		6.73	22.0		1
01654	Iron	7439-89-6	26,200		5.17	22.0		1
01656	Lithium	7439-93-2	20.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,460		2.79	11.0		1
06958	Manganese	7439-96-5	396		0.0856	0.549		1
10145	Phosphorus	7723-14-0	663		0.615	11.0		1
01662	Potassium	7440-09-7	6,310		19.8	54.9		1
01667	Sodium	7440-23-5	96.1	J	40.9	110		1
07968	Strontium	7440-24-6	31.6		0.0681	0.549		1
06969	Tin	7440-31-5	2.22	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,530		0.413	1.09		1
10146	Zirconium	7440-67-7	5.55		0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.472		0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.22		0.0853	0.426		2
06126	Barium	7440-39-3	130		0.115	0.426		2
06127	Beryllium	7440-41-7	0.880		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.450		0.0426	0.107		2
06131	Chromium	7440-47-3	35.1		0.128	0.426		2
06132	Cobalt	7440-48-4	11.7		0.0213	0.107		2
06133	Copper	7440-50-8	22.1		0.0703	0.426		2
06135	Lead	7439-92-1	14.9		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.665		0.0533	0.107		2
06139	Nickel	7440-02-0	23.6		0.107	0.426		2
06141	Selenium	7782-49-2	0.263	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0697	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.428		0.0320	0.107		2
06148	Vanadium	7440-62-2	61.9		0.0234	0.107		2
06149	Zinc	7440-66-6	93.7		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	328		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011	02:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011	13:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011	04:11	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011	16:10	JoElla L Rice	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011	11:24	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011	08:20	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011	01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011	05:14	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011	01:05	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA8N-SS-0.0-0.5

LLI Sample # SW 6257880
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 08:40

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2605 SDG#: DE126-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:14	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:14	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 03:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 16:16	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: EB02-SA8N-SS-041311 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Sample Description: EB02-SA8N-SS-041311 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.53	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.13	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	3.2		0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.034	J	0.030	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	3.0		0.051	1.0		1
10137	Phenanthrene	85-01-8	0.018	J	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-octylphthalate

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1

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Sample Description: EB02-SA8N-SS-041311 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA8N-SS-041311 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.7		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11108WAC026	04/20/2011 14:52	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11106WAD026	04/18/2011 21:58	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11108WAC026	04/18/2011 22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11106WAD026	04/17/2011 11:40	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111090006A	04/20/2011 14:35	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	111090006A	04/19/2011 16:00	Kelli M Barto	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111050020A	04/16/2011 01:12	Dustin A Underkoffler	1
01743	Aluminum	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111081848006	04/26/2011 12:04	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1

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Analysis Report

Sample Description: **EB02-SA8N-SS-041311 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA8N-SS-041311

LLI Sample # WW 6257881
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 12:15

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2606 SDG#: DE126-06EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111086050002D	04/19/2011 12:26	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111086050002C	04/19/2011 12:26	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111086050002B	04/19/2011 12:26	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111086050002A	04/19/2011 12:26	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111095713004	04/19/2011 20:07	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111081848006	04/18/2011 09:45	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111086050002	04/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111095713004	04/19/2011 15:00	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11109196601B	04/20/2011 08:06	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11115196701A	04/26/2011 04:50	Ashley M Adams	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11104196401A	04/14/2011 12:29	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11104020003A	04/14/2011 22:20	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.84
06192	Methylene Chloride	75-09-2	1.0	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.42
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

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Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		5.85	23.3		1
07914	Boron	7440-42-8	1.57	J	1.03	5.81		1
01650	Calcium	7440-70-2	5,130		7.13	23.3		1
01654	Iron	7439-89-6	46,200		27.4	116		5
01656	Lithium	7439-93-2	32.7		0.26	2.3		1
01657	Magnesium	7439-95-4	9,180		2.95	11.6		1
06958	Manganese	7439-96-5	203		0.0907	0.581		1
10145	Phosphorus	7723-14-0	404		0.651	11.6		1
01662	Potassium	7440-09-7	2,510		20.9	58.1		1
01667	Sodium	7440-23-5	177		43.4	116		1
07968	Strontium	7440-24-6	35.3		0.0721	0.581		1
06969	Tin	7440-31-5	3.50	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,320		0.433	1.14		1
10146	Zirconium	7440-67-7	3.26	J	0.977	5.81		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0866	J	0.0691	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	16.9		0.0921	0.461		2
06126	Barium	7440-39-3	134		0.124	0.461		2
06127	Beryllium	7440-41-7	1.40		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0696	J	0.0461	0.115		2
06131	Chromium	7440-47-3	41.5		0.138	0.461		2
06132	Cobalt	7440-48-4	8.20		0.0230	0.115		2
06133	Copper	7440-50-8	33.2		0.0760	0.461		2
06135	Lead	7439-92-1	16.4		0.0120	0.230		2
06138	Molybdenum	7439-98-7	1.04		0.0576	0.115		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	27.0	0.115	0.461		2
06141	Selenium	7782-49-2	0.171 J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0443 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.487	0.0345	0.115		2
06148	Vanadium	7440-62-2	62.4	0.0253	0.115		2
06149	Zinc	7440-66-6	106	0.645	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.23	1.2		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	360	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:15	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 18:41	Sara E Johnson	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:40	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:37	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 02:53	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 04:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/27/2011 21:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:18	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:26	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:08	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:05	Damary Valentin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-4.0-5.0

LLI Sample # SW 6257882
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:05

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2607 SDG#: DE126-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 16:38	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 15:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,900		5.45	21.7		1
07914	Boron	7440-42-8	2.16	J	0.964	5.41		1
01650	Calcium	7440-70-2	2,480		6.64	21.7		1
01654	Iron	7439-89-6	24,900		5.10	21.7		1
01656	Lithium	7439-93-2	29.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,410		2.75	10.8		1
06958	Manganese	7439-96-5	314		0.0845	0.541		1
10145	Phosphorus	7723-14-0	397		0.606	10.8		1
01662	Potassium	7440-09-7	2,900		19.5	54.1		1
01667	Sodium	7440-23-5	95.8	J	40.4	108		1
07968	Strontium	7440-24-6	21.2		0.0671	0.541		1
06969	Tin	7440-31-5	2.60	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,360		0.411	1.08		1
10146	Zirconium	7440-67-7	3.07	J	0.910	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0868	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20		0.0866	0.433		2
06126	Barium	7440-39-3	136		0.117	0.433		2
06127	Beryllium	7440-41-7	0.886		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.172		0.0433	0.108		2
06131	Chromium	7440-47-3	30.3		0.130	0.433		2
06132	Cobalt	7440-48-4	9.45		0.0217	0.108		2
06133	Copper	7440-50-8	17.7		0.0715	0.433		2
06135	Lead	7439-92-1	8.50		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.869		0.0541	0.108		2
06139	Nickel	7440-02-0	25.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.132	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0442	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.389		0.0325	0.108		2
06148	Vanadium	7440-62-2	48.8		0.0238	0.108		2
06149	Zinc	7440-66-6	72.0		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	391	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.66	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 03:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 14:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/20/2011 19:19	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 04:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5A-SB-8.0-9.0

LLI Sample # SW 6257883
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 16:11

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2608 SDG#: DE126-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 16:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4	U	6.4	7.6		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.8		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		19.87
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.75	22.9		1
07914	Boron	7440-42-8	2.20	J	1.02	5.71		1
01650	Calcium	7440-70-2	2,510		7.01	22.9		1
01654	Iron	7439-89-6	25,900		5.38	22.9		1
01656	Lithium	7439-93-2	32.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,540		2.90	11.4		1
06958	Manganese	7439-96-5	250		0.0891	0.571		1
10145	Phosphorus	7723-14-0	324		0.640	11.4		1
01662	Potassium	7440-09-7	2,670		20.6	57.1		1
01667	Sodium	7440-23-5	113	J	42.6	114		1
07968	Strontium	7440-24-6	21.1		0.0709	0.571		1
06969	Tin	7440-31-5	2.84	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,420		0.426	1.12		1
10146	Zirconium	7440-67-7	3.33	J	0.960	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0897	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.78		0.0879	0.440		2
06126	Barium	7440-39-3	121		0.119	0.440		2
06127	Beryllium	7440-41-7	1.03		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0835	J	0.0440	0.110		2
06131	Chromium	7440-47-3	33.5		0.132	0.440		2
06132	Cobalt	7440-48-4	8.50		0.0220	0.110		2
06133	Copper	7440-50-8	18.0		0.0725	0.440		2
06135	Lead	7439-92-1	9.84		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.558		0.0549	0.110		2

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	24.9	0.110	0.440		2
06141	Selenium	7782-49-2	0.144 J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0526 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.351	0.0330	0.110		2
06148	Vanadium	7440-62-2	52.0	0.0242	0.110		2
06149	Zinc	7440-66-6	71.2	0.615	3.30		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	410	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-061-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:37	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:01	Sara E Johnson	19.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:41	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 03:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 15:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:08	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5A-SB-4.0-5.0

LLI Sample # SW 6257884
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 14:28

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2609 SDG#: DE126-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:22	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11115243201A	04/29/2011 16:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.86
06192	Methylene Chloride	75-09-2	3.6	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.86
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	166		18.8	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
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Project Name: SSFL Area IV Collocated Soil Sampling

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E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.86	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.6		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1

Target analytes were detected in the method blank associated with the sample as noted on the QC summary. The sample was re-extracted outside the method hold time. The C30-C40 result for the re-extraction is 0.78 mg/kg. All results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	14		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	14		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	14		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.68	22.6		1
07914	Boron	7440-42-8	2.68	J	1.01	5.65		1
01650	Calcium	7440-70-2	2,140		6.93	22.6		1
01654	Iron	7439-89-6	28,900		5.32	22.6		1
01656	Lithium	7439-93-2	30.4		0.25	2.3		1
01657	Magnesium	7439-95-4	5,420		2.87	11.3		1
06958	Manganese	7439-96-5	316		0.0881	0.565		1
10145	Phosphorus	7723-14-0	140		0.633	11.3		1
01662	Potassium	7440-09-7	1,740		20.3	56.5		1
01667	Sodium	7440-23-5	1,650		42.1	113		1
07968	Strontium	7440-24-6	25.8		0.0701	0.565		1
06969	Tin	7440-31-5	2.73	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,440		0.425	1.12		1
10146	Zirconium	7440-67-7	3.72	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0691	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.68		0.0886	0.443		2
06126	Barium	7440-39-3	93.7		0.120	0.443		2
06127	Beryllium	7440-41-7	0.892		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0509	J	0.0443	0.111		2
06131	Chromium	7440-47-3	25.7		0.133	0.443		2
06132	Cobalt	7440-48-4	7.86		0.0222	0.111		2
06133	Copper	7440-50-8	9.83		0.0731	0.443		2
06135	Lead	7439-92-1	7.92		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.371		0.0554	0.111		2
06139	Nickel	7440-02-0	17.1		0.111	0.443		2
06141	Selenium	7782-49-2	0.0982	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.112		0.0133	0.111		2
06145	Thallium	7440-28-0	0.297		0.0332	0.111		2
06148	Vanadium	7440-62-2	50.0		0.0244	0.111		2
06149	Zinc	7440-66-6	54.9		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0058	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	21.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.7		0.90	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	383		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-204-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 17:59	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:21	Sara E Johnson	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:48	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:46	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11109SLD026	04/26/2011 21:57	Matthew S Woods	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 04:06	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 15:44	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11109SLD026	04/19/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	2	11112A34A	04/22/2011 20:12	Elizabeth J Marin	20.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:45	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111080010A	05/04/2011 16:20	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111150004A	04/28/2011 02:33	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111080018A	04/21/2011 11:55	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111080018A	04/19/2011 09:10	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111150004A	04/25/2011 14:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111080010A	04/18/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111090022A	04/28/2011 04:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111080028A	04/20/2011 17:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111090001A	04/19/2011 17:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111040022A	04/20/2011 13:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111090022A	04/20/2011 08:20	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111040022A	04/15/2011 12:00	Denise L Trimby	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111080028A	04/18/2011 20:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111090001A	04/19/2011 13:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:38	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5A-SB-4.0-5.0

LLI Sample # SW 6257885
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 09:19

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2610 SDG#: DE126-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/25/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 04:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11116621201A	04/27/2011 04:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 17:44	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:21	Venia B McFadden	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11111102201B	04/21/2011 18:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11111102201B	04/21/2011 10:35	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401B	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	0.65	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.23
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.76	22.9		1
07914	Boron	7440-42-8	2.53	J	1.02	5.72		1
01650	Calcium	7440-70-2	2,550		7.01	22.9		1
01654	Iron	7439-89-6	25,400		5.39	22.9		1
01656	Lithium	7439-93-2	28.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,200		2.91	11.4		1
06958	Manganese	7439-96-5	272		0.0892	0.572		1
10145	Phosphorus	7723-14-0	195		0.641	11.4		1
01662	Potassium	7440-09-7	1,780		20.6	57.2		1
01667	Sodium	7440-23-5	95.0	J	42.7	114		1
07968	Strontium	7440-24-6	25.1		0.0709	0.572		1
06969	Tin	7440-31-5	2.62	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,430		0.418	1.10		1
10146	Zirconium	7440-67-7	3.57	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.97		0.0897	0.449		2
06126	Barium	7440-39-3	160		0.121	0.449		2
06127	Beryllium	7440-41-7	1.19		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0767	J	0.0449	0.112		2
06131	Chromium	7440-47-3	29.7		0.135	0.449		2
06132	Cobalt	7440-48-4	19.1		0.0224	0.112		2
06133	Copper	7440-50-8	15.9		0.0740	0.449		2
06135	Lead	7439-92-1	10.9		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.995		0.0561	0.112		2

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Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	25.3	0.112	0.449		2
06141	Selenium		7782-49-2	0.0597 J	0.0449	0.449		2
06142	Silver		7440-22-4	0.0751 J	0.0135	0.112		2
06145	Thallium		7440-28-0	0.365	0.0337	0.112		2
06148	Vanadium		7440-62-2	56.0	0.0247	0.112		2
06149	Zinc		7440-66-6	69.4	0.628	3.37		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0035 J	0.0032	0.112		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.8	0.92	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3 U	10.3	34.3		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23 U	0.23	1.1		1
		ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential		n.a.	401	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.95	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	12.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-205-SA5A-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

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14420 Albemarle Point Place
Suite 210
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E2611 SDG#: DE126-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111092AA	04/19/2011 18:22	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111041AA	04/14/2011 19:41	Sara E Johnson	20.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201110424106	04/14/2011 16:53	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201110424106	04/14/2011 17:01	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201110424106	04/14/2011 16:50	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011 04:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011 16:16	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011 05:43	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011 16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011 05:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011 07:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/22/2011 10:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:12	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-4.0-5.0

LLI Sample # SW 6257886
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:14

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2611 SDG#: DE126-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201A	04/27/2011 05:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202A	04/28/2011 18:06	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201A	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202A	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102A	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402A	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		5.65	22.5		1
07914	Boron	7440-42-8	1.78	J	0.999	5.62		1
01650	Calcium	7440-70-2	1,960		6.88	22.5		1

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,200		5.29	22.5		1
01656	Lithium	7439-93-2	27.6		0.25	2.2		1
01657	Magnesium	7439-95-4	4,130		2.85	11.2		1
06958	Manganese	7439-96-5	170		0.0876	0.562		1
10145	Phosphorus	7723-14-0	128		0.629	11.2		1
01662	Potassium	7440-09-7	1,710		20.2	56.2		1
01667	Sodium	7440-23-5	106	J	41.9	112		1
07968	Strontium	7440-24-6	17.3		0.0696	0.562		1
06969	Tin	7440-31-5	2.70	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,350		0.423	1.11		1
10146	Zirconium	7440-67-7	2.86	J	0.943	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0776	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.0898	0.449		2
06126	Barium	7440-39-3	68.3		0.121	0.449		2
06127	Beryllium	7440-41-7	0.735		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0449	U	0.0449	0.112		2
06131	Chromium	7440-47-3	17.9		0.135	0.449		2
06132	Cobalt	7440-48-4	5.45		0.0225	0.112		2
06133	Copper	7440-50-8	10.7		0.0741	0.449		2
06135	Lead	7439-92-1	6.12		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.446		0.0562	0.112		2
06139	Nickel	7440-02-0	11.6		0.112	0.449		2
06141	Selenium	7782-49-2	0.0524	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0462	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.268		0.0337	0.112		2
06148	Vanadium	7440-62-2	37.1		0.0247	0.112		2
06149	Zinc	7440-66-6	43.7		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0060	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	324		10.0	10.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		**mV**	**mV**	**mV**	**mV**	
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11109SLE026	04/22/2011	04:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11109SLG026	04/22/2011	21:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11109SLG026	04/20/2011	03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11109SLE026	04/20/2011	03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111090011A	04/21/2011	06:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111090011A	04/19/2011	16:10	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111115708002	04/27/2011	05:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111115708002	04/27/2011	05:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111115708002	04/26/2011	01:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111115708002	04/27/2011	05:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111175708001	04/28/2011	07:46	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5A-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5A-SB-8.0-9.0

LLI Sample # SW 6257887
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011 11:22

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2612 SDG#: DE126-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111115708002	04/26/2011 01:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111111026001D	04/22/2011 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111111026001C	04/25/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111111026001B	04/25/2011 09:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111111026001A	04/22/2011 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111115711002	04/22/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111115708002	04/21/2011 12:32	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111175708001	04/27/2011 20:25	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026001	04/21/2011 12:47	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111115711002	04/21/2011 13:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11116621201B	04/27/2011 05:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11117621202B	04/28/2011 18:28	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11115243201A	04/29/2011 16:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11116621201B	04/26/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11117621202B	04/27/2011 12:45	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11110182102B	04/20/2011 10:10	Michelle L Lalli	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11110039402B	04/20/2011 10:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11115243201A	04/25/2011 19:30	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401A	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-041311 Water
SSFL Area IV Collocated Soil Sampling
TB-041311

LLI Sample # WW 6257888
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2613 SDG#: DE126-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-041311 Water
SSFL Area IV Collocated Soil Sampling
TB-041311

LLI Sample # WW 6257888
LLI Group # 1242142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/13/2011

Submitted: 04/14/2011 09:05
Reported: 05/09/2011 08:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E2613 SDG#: DE126-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y111081AA	04/18/2011	05:47	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111081AA	04/18/2011	10:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y111081AA	04/18/2011	05:47	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111081AA	04/18/2011	10:56	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11111B20A	04/22/2011	14:48	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11111B20A	04/22/2011	14:48	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111092AA	Sample number(s): 6257882,6257884-6257886									
Acetone	6.7	U	6.7	8.0	ug/kg	94		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	102		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	104		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	91		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	89		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	84		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	91		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	105		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	110		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	92		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	99		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	84		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	74		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	98		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	87		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	94		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	89		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	99		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	93		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	99		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	78		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	97		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	91		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	100		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	97		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	97		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	82		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	90		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	85		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	113		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	102		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	101		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	96		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	88		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	91		61-134		
Methylene Chloride	3.4	J	0.24	4.0	ug/kg	110		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	109		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	93		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104		77-120		
Toluene	0.11	J	0.08	4.0	ug/kg	101		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	93		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	93		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	88		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	94		80-120		
Batch number: E111041AA	Sample number(s): 6257882,6257884-6257886									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	113	110	70-130	3	30
Batch number: E111081AA	Sample number(s): 6257888									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	114	119	80-123	4	30
Batch number: Y111081AA	Sample number(s): 6257888									
Acetone	6	U	6.	20	ug/l	117	117	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	104	104	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	101	101	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	111	109	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	2	30
Bromoform	1	U	1.	5	ug/l	79	79	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	93	90	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	115	115	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	96	96	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	98	98	78-120	0	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	109	107	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	81	80	49-129	1	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	99	100	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	108	107	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	96	94	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	98	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	98	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	105	104	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	81	82	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	93	93	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	103	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	105	104	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	100	98	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	91	47-120	1	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	102	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	117	117	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	103	102	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	103	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	103	101	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	99	99	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	103	103	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	89	90	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	104	103	80-120	1	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	92	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	86	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	100	79-120	0	30
Freon 113	2	U	2.	10	ug/l	115	114	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	123*	124*	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	86	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	104	105	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	100	101	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	97	98	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	101	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	100	103	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	107	104	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	100	100	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	98	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	94	95	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	101	101	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	92	93	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	86	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	103	104	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	103	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	104	102	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	116	114	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	102	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	97	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	101	99	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	88	88	65-125	0	30
m+p-Xylene	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	97	97	80-120	0	30
Batch number: 11106WAD026	Sample number(s): 6257881									
Acenaphthene	0.010	U	0.010	0.050	ug/l	116*	95	74-109	20	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	107	95	70-110	12	30
Anthracene	0.010	U	0.010	0.050	ug/l	107	98	66-111	9	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	111	108	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	110	106	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	118	110	69-123	7	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	110	106	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	111	111	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	78	81	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	105	102	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	109	105	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	110	105	55-134	5	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	80	75	57-134	6	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	57	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	143	123	57-154	15	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	104	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	112	101	75-114	11	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	111	107	69-124	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	106	93	71-117	14	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	95	83	75-115	14	30
Naphthalene	0.030	U	0.030	0.050	ug/l	103	88	72-109	15	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	89	66	36-89	30	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	154*	144	57-145	7	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	107	98	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	108	102	69-118	6	30
Batch number: 11108WAC026	Sample number(s): 6257881									
Aniline	1	U	1.	5	ug/l	92	88	49-101	5	30
Benzidine	20	U	20.	60	ug/l	86	77	34-117	12	30
Benzoic acid	6	U	6.	15	ug/l	40	44	10-69	12	30
Benzyl alcohol	5	U	5.	15	ug/l	87	86	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	104	82-117	6	30
Carbazole	1	U	1.	5	ug/l	98	103	81-114	6	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	100	100	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	88	69	42-124	24	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	100	106	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	97	102	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	97	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	68	68	54-132	1	30
2-Chlorophenol	1	U	1.	5	ug/l	92	95	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	99	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	97	101	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	82	87	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	88	50-119	7	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	83	66	49-111	22	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	99	105	80-109	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	103	104	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	96	100	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	99	102	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	97	103	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	95	96	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	110	118*	78-116	8	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	103	81-118	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	88	90	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	88	36-118	2	30
Hexachloroethane	1	U	1.	5	ug/l	82	86	52-113	5	30
Isophorone	1	U	1.	5	ug/l	105	108	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	86	86	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	81	78	61-103	4	30
2-Nitroaniline	1	U	1.	5	ug/l	101	103	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	100	98	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	82	84	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	104	108	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	100	103	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	49	45	16-78	8	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	107	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	101	106	67-136	5	30
Pentachlorophenol	3	U	3.	15	ug/l	101	108	53-110	7	30
Phenol	1	U	1.	5	ug/l	40	36	21-67	9	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	90	95	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	103	79-107	7	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	103	81-113	1	30
Batch number: 11109SLD026	Sample number(s): 6257885									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11109SLE026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Acenaphthene	33	U	33.	170	ug/kg	98		76-111		
Acenaphthylene	33	U	33.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	67		34-94		
Anthracene	33	U	33.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzo(a)anthracene	33	U	33.	170	ug/kg	98		73-112		
Benzo(a)pyrene	33	U	33.	170	ug/kg	94		69-122		
Benzo(b)fluoranthene	33	U	33.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	33	U	33.	170	ug/kg	92		65-122		
Benzo(k)fluoranthene	33	U	33.	170	ug/kg	92		67-125		
Benzoic acid	170 U		170.	500	ug/kg	96		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	33	U	33.	170	ug/kg	92		79-117		
Butylbenzylphthalate	67	U	67.	170	ug/kg	98		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	104		79-112		
Carbazole	33	U	33.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	67	U	67.	170	ug/kg	102		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	33	U	33.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	33	U	33.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	33	U	33.	170	ug/kg	88		68-131		
2-Chloronaphthalene	33	U	33.	170	ug/kg	93		49-128		
2-Chlorophenol	33	U	33.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	33	U	33.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	33	U	33.	170	ug/kg	90		70-128		
Dibenzofuran	33	U	33.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	33	U	33.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	33	U	33.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	33	U	33.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	33	U	33.	170	ug/kg	100		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	102		76-111		
2,4-Dimethylphenol	67	U	67.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	67	U	67.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	82		37-120		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	33	U	33.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	33	U	33.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	67	U	67.	330	ug/kg	102		75-117		
Fluoranthene	33	U	33.	170	ug/kg	110		78-116		
Fluorene	33	U	33.	170	ug/kg	103		75-116		
Hexachlorobenzene	33	U	33.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	33	U	33.	170	ug/kg	89		68-105		
Indeno(1,2,3-cd)pyrene	33	U	33.	170	ug/kg	88		64-119		
Isophorone	33	U	33.	170	ug/kg	95		69-110		
1-Methylnaphthalene	33	U	33.	170	ug/kg	99		74-105		
2-Methylnaphthalene	33	U	33.	170	ug/kg	91		76-105		
2-Methylphenol	67	U	67.	170	ug/kg	95		66-110		
4-Methylphenol	67	U	67.	170	ug/kg	104		66-117		
Naphthalene	33	U	33.	170	ug/kg	94		73-106		
2-Nitroaniline	33	U	33.	170	ug/kg	96		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	33	U	33.	170	ug/kg	100		71-104		
2-Nitrophenol	33	U	33.	170	ug/kg	95		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	109		56-118		
N-Nitroso-di-n-propylamine	33	U	33.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	33	U	33.	170	ug/kg	101		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	33	U	33.	170	ug/kg	101		77-113		
Phenol	33	U	33.	170	ug/kg	94		58-112		
Pyrene	33	U	33.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	33	U	33.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	67	U	67.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11109SLG026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	114		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	98		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	116		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11111B20A	Sample number(s): 6257888									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11112A34A	Sample number(s): 6257885									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69		67-119		
Batch number: 111080010A	Sample number(s): 6257885									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	99	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
HMX	100 U		100.	300	ug/kg	109		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	96		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	117		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	111		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	86		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	119		80-120		
Batch number: 111150004A	Sample number(s): 6257885									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 111080018A	Sample number(s): 6257879,6257883,6257885									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		85-115		
Batch number: 111090006A	Sample number(s): 6257881									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	86*	94*	35-84	9	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	96	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	110	106	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111090011A	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	92	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	95		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111090022A	Sample number(s): 6257874,6257878-6257880,6257885									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.93	J	0.40	1.2	mg/kg	98		66-113		
EFH (C30 - C40)	0.92	J	0.40	1.2	mg/kg	85		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	70		66-113		
Batch number: 111050020A	Sample number(s): 6257881									
Diethylene glycol	10	U	10.	100	mg/l	90		78-126		
Ethylene glycol	10	U	10.	100	mg/l	85		80-124		
Propylene glycol	10	U	10.	100	mg/l	85		80-120		
Batch number: 111080028A	Sample number(s): 6257885									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	93		75-125		
Methanol	100 U		100.	500	ug/kg	93		68-129		
Batch number: 111090001A	Sample number(s): 6257885									
Diethylene glycol	5.0	U	5.0	13	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	105		65-122		
Propylene glycol	5.0	U	5.0	13	mg/kg	110		75-125		
Batch number: 111040022A	Sample number(s): 6257885									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	82		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	77		75-125		
Batch number: 111081848006	Sample number(s): 6257881									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	101	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	98	97	89-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	104	104	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	104	105	90-112	1	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	100	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	102	102	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	103	103	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	103	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	102	101	85-115	1	20
Sodium	0.433	U	0.433	1.00	mg/l	101	99	87-114	2	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	103	102	90-110	1	20
Tin	0.0098	U	0.0098	0.0200	mg/l	101	101	90-110	0	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	104	104	80-120	0	20
Batch number: 111086050002A	Sample number(s): 6257881									
Antimony	0.00030	U	0.00030	0.0010	mg/l	93	100	87-110	8	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	96	103	86-111	7	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	103	101	90-112	2	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	103	103	90-114	0	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	104	106	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038	U	0.00038	0.0020	mg/l	105	105	90-113	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	103	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	106	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	104	104	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	100	89-116	7	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	107	106	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 111086050002B	Sample number(s): 6257881								
Selenium	0.00025 U	0.00025	0.0020	mg/l	100	97	85-114	3	20
Batch number: 111086050002C	Sample number(s): 6257881								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	103	89-115	1	20
Batch number: 111086050002D	Sample number(s): 6257881								
Barium	0.00053 U	0.00053	0.0020	mg/l	107	108	88-113	2	20
Batch number: 111095713004	Sample number(s): 6257881								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	96	94	80-120	3	20
Batch number: 111111026001A	Sample number(s): 6257873-6257880,6257882-6257887								
Antimony	0.0600 U	0.0600	0.200	mg/kg	73		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	96		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	100		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	100		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.119 J	0.0660	0.400	mg/kg	105		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	91		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	99		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	96		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	107		87-117		
Zinc	0.560 U	0.560	3.00	mg/kg	89		81-112		
Batch number: 111111026001B	Sample number(s): 6257873-6257880,6257882-6257887								
Selenium	0.0400 U	0.0400	0.400	mg/kg	99		83-111		
Batch number: 111111026001C	Sample number(s): 6257873-6257880,6257882-6257887								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111111026001D	Sample number(s): 6257873-6257880,6257882-6257887								
Barium	0.108 U	0.108	0.400	mg/kg	95		81-111		
Batch number: 111115708002	Sample number(s): 6257873-6257880,6257882-6257887								
Aluminum	4.98 U	4.98	19.8	mg/kg	84		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	84		78-110		
Calcium	6.07 U	6.07	19.8	mg/kg	92		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	81		61-110		
Lithium	0.30 J	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	90		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	92		89-112		
Phosphorus	1.32 J	0.554	9.90	mg/kg	102		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	89		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	90		87-110		
Strontium	0.0614 U	0.0614	0.495	mg/kg	91		86-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	1.42	J	0.990	9.90	mg/kg	90		90-114		
Zirconium	0.832	U	0.832	4.95	mg/kg	101		80-120		
Batch number: 111115711002	Sample number(s): 6257873-6257880,6257882-6257887									
Mercury	0.0029	U	0.0029	0.0999	mg/kg	97		88-123		
Batch number: 111175708001	Sample number(s): 6257873-6257880,6257882-6257887									
Titanium	0.380	U	0.380	1.00	mg/kg	107		80-120		
Batch number: 11104196401A	Sample number(s): 6257881									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11109196601B	Sample number(s): 6257881									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	94	94	90-110	0	20
Batch number: 11111102201B	Sample number(s): 6257885									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	103		80-120		
Batch number: 11115196701A	Sample number(s): 6257881									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	90	96	85-115	6	20
Batch number: 11115243201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257887									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11116621201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11116621201B	Sample number(s): 6257887									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11117621202A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11117621202B	Sample number(s): 6257887									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11104020003A	Sample number(s): 6257881									
18b pH by 9040B						100	100	90-110	0	1
Batch number: 11110039401B	Sample number(s): 6257873									
18a pH by 9045C						100		95-105		
Batch number: 11110039402A	Sample number(s): 6257874,6257877-6257880,6257882-6257886									
18a pH by 9045C						100		95-105		
Batch number: 11110039402B	Sample number(s): 6257887									
18a pH by 9045C						100		95-105		
Batch number: 11110182101B	Sample number(s): 6257873									
32a OR Potential						100		98-102		
Batch number: 11110182102A	Sample number(s): 6257874,6257877-6257880,6257882-6257886									
32a OR Potential						100		98-102		
Batch number: 11110182102B	Sample number(s): 6257887									
32a OR Potential						100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401A	Sample number(s): 6257873-6257880,6257882-6257884,6257886-6257887								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401B	Sample number(s): 6257885								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111092AA	Sample number(s): 6257882,6257884-6257886 UNSPK: P259085								
Acetone	78	80	15-210	6	30				
Benzene	102	99	55-143	1	30				
Bromobenzene	94	89	43-139	2	30				
Bromochloromethane	115	116	60-137	5	30				
Bromodichloromethane	88	87	53-136	3	30				
Bromoform	81	81	38-124	5	30				
Bromomethane	86	80	42-168	3	30				
2-Butanone	74	79	37-163	11	30				
n-Butylbenzene	82	61	30-146	26	30				
sec-Butylbenzene	89	71	33-157	19	30				
tert-Butylbenzene	86	73	41-152	13	30				
Carbon Tetrachloride	92	89	45-153	0	30				
Chlorobenzene	91	85	49-135	3	30				
Chloroethane	87	82	39-152	2	30				
2-Chloroethyl Vinyl Ether	51	58	32-139	16	30				
Chloroform	96	94	61-142	2	30				
Chloromethane	93	94	51-163	5	30				
2-Chlorotoluene	90	79	42-146	9	30				
4-Chlorotoluene	89	78	39-145	10	30				
Chlorotrifluoroethene	99	90	70-130	32*	30				
1,2-Dibromo-3-chloropropane	71	74	30-139	7	30				
Dibromochloromethane	85	85	51-128	3	30				
1,2-Dibromoethane	89	91	54-129	6	30				
Dibromomethane	88	88	57-130	3	30				
1,2-Dichlorobenzene	87	82	36-133	3	30				
1,3-Dichlorobenzene	89	80	34-134	7	30				
1,4-Dichlorobenzene	89	81	35-136	5	30				
Dichlorodifluoromethane	82	80	26-151	2	30				
1,1-Dichloroethane	98	96	63-142	3	30				
1,2-Dichloroethane	87	87	68-131	3	30				
1,1-Dichloroethene	113	113	61-149	4	30				
cis-1,2-Dichloroethene	98	95	60-136	1	30				
trans-1,2-Dichloroethene	102	99	59-142	1	30				
1,2-Dichloropropane	96	95	62-135	3	30				
1,3-Dichloropropane	90	91	58-129	4	30				
2,2-Dichloropropane	83	83	53-147	4	30				
1,1-Dichloropropene	96	90	54-145	2	30				
cis-1,3-Dichloropropene	84	84	51-131	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,3-Dichloropropene	77	78	49-129	6	30				
Ethylbenzene	88	78	44-141	9	30				
Freon 113	120	122	56-156	6	30				
Freon 133a	114	111	61-131	25	30				
Hexachlorobutadiene	75	57	10-155	24	30				
2-Hexanone	75	81	32-160	12	30				
Isopropylbenzene	86	72	38-144	14	30				
p-Isopropyltoluene	86	67	29-152	20	30				
Methyl Tertiary Butyl Ether	80	84	55-129	9	30				
4-Methyl-2-pentanone	75	80	46-139	10	30				
Methylene Chloride	103	104	61-141	5	30				
n-Propylbenzene	92	79	39-157	11	30				
Styrene	86	77	35-134	7	30				
1,1,1,2-Tetrachloroethane	87	84	52-130	1	30				
1,1,2,2-Tetrachloroethane	91	94	40-152	7	30				
Tetrachloroethene	91	81	42-149	8	30				
Toluene	96	89	50-146	3	30				
1,2,3-Trichlorobenzene	82	80	10-140	0	30				
1,2,4-Trichlorobenzene	76	72	10-136	1	30				
1,1,1-Trichloroethane	92	92	64-142	4	30				
1,1,2-Trichloroethane	92	92	54-139	4	30				
Trichloroethene	94	88	53-144	2	30				
Trichlorofluoromethane	102	100	47-163	2	30				
1,2,3-Trichloropropane	87	91	45-154	8	30				
1,2,4-Trimethylbenzene	89	77	37-149	11	30				
1,3,5-Trimethylbenzene	90	77	38-150	12	30				
Vinyl Chloride	95	97	50-154	6	30				
m+p-Xylene	88	77	44-137	10	30				
o-Xylene	85	77	42-137	6	30				
Batch number: E111041AA	Sample number(s): 6257882,6257884-6257886 UNSPK: P255761								
1,4-Dioxane	89	98	70-130	13	30				
Batch number: 11109SLD026	Sample number(s): 6257885 UNSPK: P09LDUS								
N-Nitrosodimethylamine	59*	62*	70-130	4	30				
Batch number: 11109SLE026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
Acenaphthene	98	102	75-115	4	30				
Acenaphthylene	100	104	81-110	4	30				
Aniline	72	73	35-95	1	30				
Anthracene	100	105	75-115	5	30				
Benzidine	30*	46	35-141	41*	30				
Benzo(a)anthracene	101	104	65-122	3	30				
Benzo(a)pyrene	92	98	57-126	7	30				
Benzo(b)fluoranthene	84	87	59-125	3	30				
Benzo(g,h,i)perylene	96	102	59-127	6	30				
Benzo(k)fluoranthene	91	95	56-132	5	30				
Benzoic acid	46	41	10-173	12	30				
Benzyl alcohol	94	98	67-115	4	30				
4-Bromophenyl-phenylether	95	99	67-129	5	30				
Butylbenzylphthalate	108	110	73-134	2	30				
Di-n-butylphthalate	102	108	67-123	6	30				
Carbazole	100	105	64-120	5	30				

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	98	100	76-110	2	30				
4-Chloroaniline	63	65	23-95	4	30				
bis(2-Chloroethoxy)methane	95	98	75-104	3	30				
bis(2-Chloroethyl)ether	96	101	60-116	5	30				
bis(2-Chloroisopropyl)ether	89	91	55-142	2	30				
2-Chloronaphthalene	103	103	50-141	0	30				
2-Chlorophenol	99	104	73-121	5	30				
4-Chlorophenyl-phenylether	95	98	80-109	2	30				
Chrysene	101	102	62-128	1	30				
Dibenz(a,h)anthracene	96	103	65-125	8	30				
Dibenzofuran	98	102	71-112	4	30				
1,2-Dichlorobenzene	90	94	66-108	4	30				
1,3-Dichlorobenzene	90	94	63-109	5	30				
1,4-Dichlorobenzene	91	95	70-100	4	30				
3,3'-Dichlorobenzidine	85	91	16-119	6	30				
2,4-Dichlorophenol	101	102	78-117	2	30				
Diethylphthalate	96	98	66-118	3	30				
2,4-Dimethylphenol	94	99	78-110	6	30				
3,5-Dimethylphenol	98	103	70-130	5	30				
Dimethylphthalate	94	97	64-118	4	30				
4,6-Dinitro-2-methylphenol	43	45	24-116	5	30				
2,4-Dinitrophenol	28	31	20-143	13	30				
2,4-Dinitrotoluene	96	101	73-113	5	30				
2,6-Dinitrotoluene	93	99	69-123	6	30				
1,2-Diphenylhydrazine	106	112	71-129	5	30				
bis(2-Ethylhexyl)phthalate	112	115	63-122	2	30				
Fluoranthene	104	108	73-112	4	30				
Fluorene	100	103	77-111	3	30				
Hexachlorobenzene	95	99	77-114	4	30				
Hexachlorobutadiene	93	95	62-120	3	30				
Hexachlorocyclopentadiene	29	33	10-153	11	30				
Hexachloroethane	81	83	57-109	2	30				
Indeno(1,2,3-cd)pyrene	95	101	61-126	6	30				
Isophorone	94	97	73-102	3	30				
1-Methylnaphthalene	98	99	73-112	1	30				
2-Methylnaphthalene	92	94	76-114	3	30				
2-Methylphenol	95	98	75-111	4	30				
4-Methylphenol	105	107	71-111	2	30				
Naphthalene	95	98	72-116	2	30				
2-Nitroaniline	102	108	67-125	6	30				
3-Nitroaniline	96	100	59-122	4	30				
4-Nitroaniline	90	78	52-112	14	30				
Nitrobenzene	98	102	72-106	4	30				
2-Nitrophenol	94	96	74-115	3	30				
4-Nitrophenol	95	99	54-113	3	30				
N-Nitroso-di-n-propylamine	91	94	60-116	3	30				
N-Nitrosodimethylamine	90	94	47-116	4	30				
N-Nitrosodiphenylamine	101	108	86-145	7	30				
Di-n-octylphthalate	95	102	56-126	7	30				
Pentachlorophenol	68	75	28-127	10	30				
Phenanthrene	99	103	65-125	4	30				
Phenol	94	96	58-126	1	30				
Pyrene	100	104	74-126	4	30				

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	97	101	72-115	4	30				
2,4,5-Trichlorophenol	101	104	78-109	3	30				
2,4,6-Trichlorophenol	101	106	77-115	5	30				
Batch number: 11109SLG026	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
Acenaphthene	106*	106*	63-105	0	30				
Acenaphthylene	100	100	67-114	0	30				
Anthracene	97	100	60-122	3	30				
Benzo(a)anthracene	95	108	59-128	12	30				
Benzo(a)pyrene	88	108	45-138	18	30				
Benzo(b)fluoranthene	88	110	43-155	17	30				
Benzo(g,h,i)perylene	52	54	33-141	3	30				
Benzo(k)fluoranthene	98	118	42-144	17	30				
Butylbenzylphthalate	119	448*	57-173	116*	30				
Di-n-butylphthalate	119	120	65-148	1	30				
Chrysene	83	103	48-134	17	30				
Dibenz(a,h)anthracene	79	77	22-133	2	30				
Diethylphthalate	93	93	70-136	0	30				
Dimethylphthalate	107	106	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	60	109	39-167	26	30				
Fluoranthene	97	116	26-166	14	30				
Fluorene	104	105	66-122	1	30				
Indeno(1,2,3-cd)pyrene	73	73	21-143	0	30				
1-Methylnaphthalene	98	100	72-123	2	30				
2-Methylnaphthalene	89	90	64-103	2	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	104	100	48-113	3	30				
Di-n-octylphthalate	140	154	40-192	10	30				
Phenanthrene	96	99	12-165	3	30				
Pyrene	81	101	15-153	18	30				
Batch number: 11112A34A	Sample number(s): 6257885 UNSPK: P264845								
9a TPH by EPA 8015B Gas C5-C12	62	61	39-118	7	30				
Batch number: 111080010A	Sample number(s): 6257885 UNSPK: P255761								
4-Amino-2,6-Dinitrotoluene	89	105	80-127	17	50				
2-Amino-4,6-Dinitrotoluene	90	104	80-137	15	50				
1,3-Dinitrobenzene	65	80	38-166	19	50				
2,4-Dinitrotoluene	78*	91	80-131	15	50				
2,6-Dinitrotoluene	86	100	80-127	15	50				
HMX	86	105	63-128	20	50				
Nitrobenzene	91	101	80-125	10	50				
Nitroglycerin	84	100	80-120	17	50				
2-Nitrotoluene	95	107	80-122	12	50				
3-Nitrotoluene	98	111	72-119	12	50				
4-Nitrotoluene	94	107	80-125	12	50				
PETN	102	122*	80-121	17	50				
RDX	108	118	75-129	9	50				
Tetryl	47*	57	55-174	19	50				
1,3,5-Trinitrobenzene	47*	65*	82-126	33	50				
2,4,6-Trinitrotoluene	53*	74*	82-130	32	50				
Batch number: 111150004A	Sample number(s): 6257885 UNSPK: P255761								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
25a Formaldehyde 8315A	88	97	80-120	3	50				
Batch number: 111080018A	Sample number(s): 6257879,6257883,6257885 UNSPK: P255784								
6a Perchlorate EPA 6850	104	105	80-120	1	20				
Batch number: 111090011A	Sample number(s): 6257873-6257876,6257878-6257880,6257882-6257887 UNSPK: 6257874								
PCB-1016	0*	0*	29-146	0	50				
PCB-1260	0*	0*	39-149	0	50				
Batch number: 111090022A	Sample number(s): 6257874,6257878-6257880,6257885 UNSPK: 6257874								
EFH (C12-C14)	101	84	49-123	16	20				
EFH (C15-C20)	106	83	49-123	10	20				
EFH (C21-C30)	-11 (2)	-128 (2)	49-123	21*	20				
EFH (C30 - C40)	-1743 (2)	-1815 (2)	49-123	9	20				
EFH (C8-C11)	73	61	49-123	17	20				
Batch number: 111050020A	Sample number(s): 6257881 UNSPK: 6257881								
Diethylene glycol	85	100	83-130	16	20				
Ethylene glycol	80*	85*	89-125	6	20				
Propylene glycol	90*	90*	91-128	0	20				
Batch number: 111080028A	Sample number(s): 6257885 UNSPK: P259054								
Ethanol	70	71	48-130	1	20				
Isopropanol	77	77	12-149	1	20				
Methanol	64	64	43-138	0	20				
Batch number: 111090001A	Sample number(s): 6257885 UNSPK: P259054								
Diethylene glycol	77	89	59-109	14	20				
Ethylene glycol	84	93	63-107	9	20				
Propylene glycol	90	96	63-107	6	20				
Batch number: 111040022A	Sample number(s): 6257885 UNSPK: P255761								
m-Terphenyl	80	79	75-125	1	20				
o-Terphenyl	92	95	75-125	2	20				
p-Terphenyl	75	76	75-125	0	20				
Batch number: 111111026001A	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Antimony	34*	37*	75-125	3	20	0.575	0.484	17 (1)	20
Arsenic	133*	134*	75-125	0	20	6.10	5.50	10	20
Beryllium	108	105	75-125	1	20	0.822	0.664	21*	20
Cadmium	151*	115	75-125	14	20	1.10	1.04	6	20
Chromium	120	158*	75-125	8	20	33.7	25.9	26*	20
Cobalt	129*	116	75-125	9	20	9.07	6.85	28*	20
Copper	63 (2)	117 (2)	75-125	9	20	48.6	35.8	30*	20
Lead	196 (2)	120 (2)	75-125	7	20	26.4	19.2	32*	20
Nickel	146*	159*	75-125	3	20	24.2	18.9	25*	20
Silver	124	113	75-125	10	20	0.253	0.217	15 (1)	20
Thallium	124	127*	75-125	1	20	0.289	0.234	21* (1)	20
Vanadium	140 (2)	83 (2)	75-125	9	20	55.5	43.7	24*	20
Zinc	313 (2)	214 (2)	75-125	5	20	155	125	21*	20

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111111026001B	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Selenium	111	110	75-125	1	20	0.183 J	0.143 J	25* (1)	20
Batch number: 111111026001C	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Molybdenum	117	112	75-125	4	20	0.661	0.506	27*	20
Batch number: 111111026001D	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Barium	-142 (2)	11 (2)	75-125	9	20	168	125	29*	20
Batch number: 111115708002	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Aluminum	2687 (2)	2319 (2)	75-125	3	20	23,100	22,700	2	20
Boron	93	95	84-115	2	20	20.0	19.8	1 (1)	20
Calcium	588 (2)	612 (2)	75-125	0	20	22,800	22,800	0	20
Iron	1156 (2)	1231 (2)	75-125	0	20	25,100	25,000	0	20
Lithium	103	104	82-114	1	20	21.3	21.1	1	20
Magnesium	345 (2)	329 (2)	75-125	0	20	6,730	6,660	1	20
Manganese	121 (2)	70 (2)	75-125	6	20	377	398	6	20
Phosphorus	-36 (2)	136 (2)	75-125	12	20	1,340	1,290	4	20
Potassium	131 (2)	148 (2)	75-125	2	20	5,660	5,580	1	20
Sodium	96	98	75-125	2	20	186	179	4 (1)	20
Strontium	97	103	75-115	3	20	93.7	93.4	0	20
Tin	84	83	80-110	0	20	2.62 J	2.33 J	12 (1)	20
Zirconium	90	90	75-125	0	20	6.01	6.28	4 (1)	20
Batch number: 111115711002	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Mercury	88	92	65-135	3	20	0.0741 J	0.156	71* (1)	20
Batch number: 111175708001	Sample number(s): 6257873-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
Titanium	369 (2)	342 (2)	75-125	1	20	1,150	1,190	3	20
Batch number: 11111102201B	Sample number(s): 6257885 UNSPK: P256863 BKG: P256863								
17a Cyanide by 9012B	107		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11115243201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257887 UNSPK: 6257874 BKG: 6257874								
3a Cr VI by EPA 7199	83		75-125			0.55 J	0.35 J	45* (1)	20
Batch number: 11116621201A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886 UNSPK: 6257874 BKG: 6257874								
11a Anions by 300.0 - Fluoride	62*		80-120			2.2	2.3	7 (1)	20
11a Anions by 300.0 - Nitrate	94		80-120			2.7	2.6	1 (1)	20
Batch number: 11116621201B	Sample number(s): 6257887 UNSPK: 6257887 BKG: 6257887								
11a Anions by 300.0 - Fluoride	55*		80-120			1.3	2.3	54* (1)	20
Batch number: 11117621202A	Sample number(s): 6257873-6257875,6257877-6257880,6257882-6257886 UNSPK: 6257874 BKG: 6257874								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11117621202B	Sample number(s): 6257887 UNSPK: 6257887 BKG: 6257887								

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Quality Control Summary

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Reported: 05/09/11 at 08:57 AM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	89		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11110039401B	Sample number(s): 6257873 BKG: 6257873										
18a pH by 9045C						8.21		8.22		0	1
Batch number: 11110039402A	Sample number(s): 6257874,6257877-6257880,6257882-6257886 BKG: 6257874										
18a pH by 9045C						8.27		8.28		0	1
Batch number: 11110039402B	Sample number(s): 6257887 BKG: 6257887										
18a pH by 9045C						6.91		6.93		0	1
Batch number: 11110182101B	Sample number(s): 6257873 BKG: P257477										
32a OR Potential						275		275		0	6
Batch number: 11110182102A	Sample number(s): 6257874,6257877-6257880,6257882-6257886 BKG: 6257874										
32a OR Potential						312		313		0	6
Batch number: 11110182102B	Sample number(s): 6257887 BKG: P258902										
32a OR Potential						264		267		1	6
Batch number: 11116162401A	Sample number(s): 6257873-6257880,6257882-6257884,6257886-6257887 BKG: 6257874										
28a Moisture Content by 160.3						15.2		15.0		2	20
Moisture Content by 160.3						15.2		15.0		2	20
Moisture Content by 160.3						15.2		15.0		2	20
Batch number: 11126162401B	Sample number(s): 6257885 BKG: 6257885										
Moisture Content by 160.3						11.5		11.9		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111092AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6257882	97	97	100	88
6257884	96	96	100	88
6257885	98	102	99	89
6257886	97	96	100	87
Blank	98	100	101	90
LCS	99	99	103	95
MS	97	96	103	96
MSD	96	99	103	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111041AA

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Quality Control Summary

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Surrogate Quality Control

	Toluene-d8
6257882	97
6257884	97
6257885	96
6257886	97
Blank	97
LCS	98
LCSD	98
MS	96
MSD	96
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111081AA

	Toluene-d8
6257888	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y111081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6257888	106	101	103	94
Blank	106	101	102	94
LCS	105	103	105	100
LCSD	104	102	104	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11106WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257881	119	99	111
Blank	113	104	115
LCS	117	101	106
LCSD	99	90	101
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11108WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257881	60	37	100	102	94	87
Blank	59	37	97	101	95	86
LCS	64	41	96	103	96	88
LCSD	61	39	96	109	98	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11109SLD026

	N-Nitrosodimethylamine-d6
6257885	112
Blank	79
LCS	83
MS	819*
MSD	831*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11109SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257873	100	104	95	95	98	86
6257874	96	99	90	91	92	86
6257875	100	104	95	97	96	89
6257876	103	107	99	99	99	90
6257878	99	104	97	96	99	87
6257879	100	103	94	96	98	89
6257880	96	100	91	93	94	87
6257882	91	96	86	90	90	83
6257883	91	96	85	90	89	82
6257884	95	99	92	93	95	86
6257885	93	99	87	92	91	85
6257886	92	96	87	90	90	81
6257887	87	92	87	85	83	83
Blank	88	93	88	89	91	80
LCS	102	105	108	98	97	86
MS	100	104	95	97	96	89
MSD	103	107	99	99	99	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11109SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6257873	105	99	118
6257874	105	99	97
6257875	107	97	95
6257876	105	101	109
6257878	104	97	112
6257879	109	102	119
6257880	101	92	103
6257882	94	90	100
6257883	93	90	101
6257884	99	91	101
6257885	95	92	101
6257886	95	90	95
6257887	97	90	97
Blank	101	96	111
LCS	102	97	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

MS	107	97	95
MSD	105	101	109
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11111B20A

	Trifluorotoluene-F
6257888	74
Blank	73
LCS	115
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11112A34A

	Trifluorotoluene-F
6257885	74
Blank	91
LCS	89
MS	79
MSD	73
Limits:	61-122

Analysis Name: 16a Energetics by 8330A
Batch number: 111080010A

	2-Nitro-m-xylene
6257885	124
Blank	113
LCS	118
LCSD	110
MS	90
MSD	112
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111090006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6257881	107	101
Blank	108	103
LCS	111	120
LCSD	111	119
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111090011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6257873	110	157*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

6257874	108	155*
6257875	98	130*
6257876	99	136*
6257878	157*	228*
6257879	111	143*
6257880	104	102
6257882	100	107
6257883	101	106
6257884	106	108
6257885	95	99
6257886	103	108
6257887	94	101
Blank	102	102
LCS	97	105
LCSD	99	107
MS	98	130*
MSD	99	136*
Limits:	53-139	53-142

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111150004A

Butyraldehyde

6257885	96
Blank	100
LCS	101
MS	96
MSD	95
Limits:	64-126

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111040022A

n-Triacontane-d62

6257885	71
Blank	82
LCS	77
MS	70
MSD	83
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111050020A

Tetramethylene glycol

6257881	86
Blank	84
LCS	91
MS	109
MSD	94
Limits:	77-119

Analysis Name: 19a Alcohols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242142
Reported: 05/09/11 at 08:57 AM

Surrogate Quality Control

Batch number: 111080028A

	Acetone
6257885	84
Blank	96
LCS	95
MS	78
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111090001A

	Tetramethylene glycol
6257885	53
Blank	92
LCS	105
MS	90
MSD	86
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111090022A

	Chlorobenzene	Orthoterphenyl
6257874	71	86
6257878	63	89
6257879	64	85
6257880	67	81
6257885	51	63
Blank	64	67
LCS	66	75
MS	68	73
MSD	66	71
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1242142 sample# 6257873-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Stacy Burt

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X											
DUP02-SA8N-QC-041311	04.13.11	1015	SOIL	NONE	1 SS sleeve			X	X															
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X											**MS/MSD sample**
SL-027-SA8N-SS-0.0-0.5MS	04.13.11	1010	SOIL	NONE	2 SS sleeves			X	X															**MS/MSD sample**
SL-027-SA8N-SS-0.0-0.5	04.13.11	1010	SOIL	NONE	1-16 oz jar										X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-028-SA8N-SS-0.0-0.5	04.13.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X									
SL-032-SA8N-SS-0.0-0.5	04.13.11	1255	SOIL	NONE	1 SS sleeve			X	X															
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X									
SL-046-SA8N-SS-0.0-0.5	04.13.11	0840	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature) Date/Time: 04/13/2011 / 1700

Received for Laboratory by: (Signature) 4/14/11 905

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) Date/Time

Airbill No.(s): 8700 5932 3124; 8700 5932 3146 8700 5932 3157

Acct# 13013 Cp# 1242142 Sample# 6257873-88

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures: Stef J Butch							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	7-1 liter ambers			X	X	X															
EB02-SA8N-SS-041311	04.13.11	1215	WATER	NONE	1-500 mL poly		X				X	X	X												
EB02-SA8N-SS-041311	04.13.11	1215	WATER	HNO3	1-500 mL poly	X																			
EB03-SA8N-SS-041311	04.13.11	1220	WATER	NONE	3-40 ml vials																		X		
Relinquished by: (Signature)	Date/Time 04/13/2011 / 1700		Received for Laboratory by: (Signature) 4/14/11 905																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157																						

acct#13013 Gp#1242142 Sample#6257873-88

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-060-SA5A-SB-4.5	04.13.11	1600	SOIL	NONE	4-Encores										X	X											
SL-060-SA5A-SB-4.0-5.0	04.13.11	1605	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-060-SA5A-SB-8.0-9.0	04.13.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-061-SA5A-SB-4.5	04.13.11	1424	SOIL	NONE	4-Encores										X	X											
SL-061-SA5A-SB-4.0-5.0	04.13.11	1428	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-204-SA5A-SB-4.5	04.13.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-204-SA5A-SB-4.0-5.0	04.13.11	0919	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-205-SA5A-SB-4.5	04.13.11	1110	SOIL	NONE	4-Encores										X	X											
SL-205-SA5A-SB-4.0-5.0	04.13.11	1114	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-205-SA5A-SB-8.0-9.0	04.13.11	1122	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041311	04.13.11		WATER	HCl	4-40 mL VOA VIALS			·							X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 04/13/2011 / 1700		Received for Laboratory by: (*Signature*) Yang Yu 4/14/11 905																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8700 5932 3124; 8700 5932 3146 8700 5932 3157																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/15/2011
Group Number: 1242332
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP14-SA5A-QC-041411 Soil	6259104
SL-058-SA5A-SB-3.0-4.0 Soil	6259105
SL-058-SA5A-SB-3.0-4.0MS Soil	6259106
SL-058-SA5A-SB-3.0-4.0MSD Soil	6259107
SL-059-SA5A-SB-3.0-4.0 Soil	6259108
SL-065-SA5A-SB-4.0-5.0 Soil	6259109
SL-242-SA5A-SB-2.5-3.5 Soil	6259110

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP14-SA5A-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP14-SA5A-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0705	JB	0.0317	1.09	1
11031	12378-PeCDD	40321-76-4	0.270	J	0.0480	5.46	1
11031	123478-HxCDD	39227-28-6	0.197	JB	0.0335	5.46	1
11031	123678-HxCDD	57653-85-7	0.256	JBQ	0.0359	5.46	1
11031	123789-HxCDD	19408-74-3	0.218	JB	0.0350	5.46	1
11031	1234678-HpCDD	35822-46-9	0.326	JBQ	0.0382	5.46	1
11031	OCDD	3268-87-9	0.851	JB	0.0356	10.9	1
11031	2378-TCDF	51207-31-9	0.240	JBQ	0.0337	1.09	1
11031	12378-PeCDF	57117-41-6	0.317	JBQ	0.0155	5.46	1
11031	23478-PeCDF	57117-31-4	0.309	JB	0.0195	5.46	1
11031	123478-HxCDF	70648-26-9	0.221	JB	0.0341	5.46	1
11031	123678-HxCDF	57117-44-9	0.193	JB	0.0271	5.46	1
11031	123789-HxCDF	72918-21-9	0.267	JB	0.0371	5.46	1
11031	234678-HxCDF	60851-34-5	0.212	JB	0.0263	5.46	1
11031	1234678-HpCDF	67562-39-4	0.365	JB	0.0200	5.46	1
11031	1234789-HpCDF	55673-89-7	0.278	JB	0.0425	5.46	1
11031	OCDF	39001-02-0	0.569	JB	0.0621	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	51	28 - 136
13C12-123789-HxCDF	42	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP14-SA5A-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP14-SA5A-QC-041411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5A-QC-041411

LLI Sample # SW 6259104
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:16

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP14 SDG#: DX072-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116002	04/28/2011 17:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11116002	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0326 JBQ	0.0138	1.09	1
11031	12378-PeCDD	40321-76-4	0.0805 JBQ	0.0152	5.43	1
11031	123478-HxCDD	39227-28-6	0.0422 JB	0.0171	5.43	1
11031	123678-HxCDD	57653-85-7	0.146 JB	0.0178	5.43	1
11031	123789-HxCDD	19408-74-3	0.257 JBQ	0.0168	5.43	1
11031	1234678-HpCDD	35822-46-9	0.726 JB	0.0355	5.43	1
11031	OCDD	3268-87-9	12.1 B	0.0265	10.9	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.09	1
11031	12378-PeCDF	57117-41-6	0.0758 JBQ	0.00736	5.43	1
11031	23478-PeCDF	57117-31-4	0.0681 JBQ	0.00736	5.43	1
11031	123478-HxCDF	70648-26-9	0.0426 JB	0.0102	5.43	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.00967	5.43	1
11031	123789-HxCDF	72918-21-9	0.157 JB	0.0107	5.43	1
11031	234678-HxCDF	60851-34-5	0.0542 JBQ	0.00956	5.43	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.0149	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0704 JBQ	0.0207	5.43	1
11031	OCDF	39001-02-0	0.236 JBQ	0.0252	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259105
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 08:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5	B	0.0287	1.10	1
11031	12378-PeCDD	40321-76-4	111	B	0.0270	5.48	1
11031	123478-HxCDD	39227-28-6	113	B	0.0291	5.48	1
11031	123678-HxCDD	57653-85-7	112	B	0.0298	5.48	1
11031	123789-HxCDD	19408-74-3	111	B	0.0285	5.48	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0512	5.48	1
11031	OCDD	3268-87-9	230	B	0.0460	11.0	1
11031	2378-TCDF	51207-31-9	22.7		0.0288	1.10	1
11031	12378-PeCDF	57117-41-6	109	B	0.0199	5.48	1
11031	23478-PeCDF	57117-31-4	111	B	0.0193	5.48	1
11031	123478-HxCDF	70648-26-9	112	B	0.0531	5.48	1
11031	123678-HxCDF	57117-44-9	111	B	0.0454	5.48	1
11031	123789-HxCDF	72918-21-9	110	B	0.0435	5.48	1
11031	234678-HxCDF	60851-34-5	113	B	0.0387	5.48	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0447	5.48	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0567	5.48	1
11031	OCDF	39001-02-0	226	B	0.0448	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA5A-SB-3.0-4.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259106
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 09:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.6	B	0.0353	1.10	1
11031	12378-PeCDD	40321-76-4	112	B	0.0338	5.49	1
11031	123478-HxCDD	39227-28-6	113	B	0.0455	5.49	1
11031	123678-HxCDD	57653-85-7	112	B	0.0462	5.49	1
11031	123789-HxCDD	19408-74-3	110	B	0.0437	5.49	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0600	5.49	1
11031	OCDD	3268-87-9	224	B	0.0523	11.0	1
11031	2378-TCDF	51207-31-9	23.1		0.0327	1.10	1
11031	12378-PeCDF	57117-41-6	111	B	0.0303	5.49	1
11031	23478-PeCDF	57117-31-4	113	B	0.0301	5.49	1
11031	123478-HxCDF	70648-26-9	113	B	0.0665	5.49	1
11031	123678-HxCDF	57117-44-9	109	B	0.0591	5.49	1
11031	123789-HxCDF	72918-21-9	111	B	0.0722	5.49	1
11031	234678-HxCDF	60851-34-5	112	B	0.0607	5.49	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0419	5.49	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0674	5.49	1
11031	OCDF	39001-02-0	223	B	0.0534	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5A-SB-3.0-4.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5A-SB-3.0-4.0

LLI Sample # SW 6259107
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 10:09

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX072-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 10:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0309 JB	0.0135	1.12	1
11031	12378-PeCDD	40321-76-4	0.148 JBQ	0.0142	5.59	1
11031	123478-HxCDD	39227-28-6	0.0476 JBQ	0.0153	5.59	1
11031	123678-HxCDD	57653-85-7	0.125 JBQ	0.0158	5.59	1
11031	123789-HxCDD	19408-74-3	0.298 JB	0.0148	5.59	1
11031	1234678-HpCDD	35822-46-9	0.383 JBQ	0.0184	5.59	1
11031	OCDD	3268-87-9	0.827 JB	0.0257	11.2	1
11031	2378-TCDF	51207-31-9	0.0304 JB	0.0126	1.12	1
11031	12378-PeCDF	57117-41-6	0.126 JB	0.00722	5.59	1
11031	23478-PeCDF	57117-31-4	0.145 JB	0.00755	5.59	1
11031	123478-HxCDF	70648-26-9	0.0586 JBQ	0.0147	5.59	1
11031	123678-HxCDF	57117-44-9	0.0647 JB	0.0113	5.59	1
11031	123789-HxCDF	72918-21-9	0.277 JB	0.0151	5.59	1
11031	234678-HxCDF	60851-34-5	0.161 JBQ	0.0115	5.59	1
11031	1234678-HpCDF	67562-39-4	0.137 JB	0.00755	5.59	1
11031	1234789-HpCDF	55673-89-7	0.164 JBQ	0.0127	5.59	1
11031	OCDF	39001-02-0	0.346 JB	0.0244	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5A-SB-3.0-4.0

LLI Sample # SW 6259108
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 11:06

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX072-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/23/2011 19:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0167 JBQ	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0232 JBQ	0.0151	5.50	1
11031	123478-HxCDD	39227-28-6	0.0214 JBQ	0.0130	5.50	1
11031	123678-HxCDD	57653-85-7	0.0432 JBQ	0.0135	5.50	1
11031	123789-HxCDD	19408-74-3	0.0653 JB	0.0127	5.50	1
11031	1234678-HpCDD	35822-46-9	0.320 JB	0.0176	5.50	1
11031	OCDD	3268-87-9	0.952 JB	0.0265	11.0	1
11031	2378-TCDF	51207-31-9	0.0135 U	0.0135	1.10	1
11031	12378-PeCDF	57117-41-6	0.0354 JB	0.00691	5.50	1
11031	23478-PeCDF	57117-31-4	0.0749 JB	0.00747	5.50	1
11031	123478-HxCDF	70648-26-9	0.0211 JBQ	0.0111	5.50	1
11031	123678-HxCDF	57117-44-9	0.0303 JBQ	0.00892	5.50	1
11031	123789-HxCDF	72918-21-9	0.0650 JBQ	0.0120	5.50	1
11031	234678-HxCDF	60851-34-5	0.0752 JBQ	0.00948	5.50	1
11031	1234678-HpCDF	67562-39-4	0.126 JB	0.00736	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0726 JBQ	0.0136	5.50	1
11031	OCDF	39001-02-0	0.217 JBQ	0.0244	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5A-SB-4.0-5.0

LLI Sample # SW 6259109
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 12:58

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX072-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/23/2011 20:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-242-SA5A-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0138 JBQ	0.0124	1.13	1
11031	12378-PeCDD	40321-76-4	0.0273 JBQ	0.0140	5.66	1
11031	123478-HxCDD	39227-28-6	0.0259 JBQ	0.0148	5.66	1
11031	123678-HxCDD	57653-85-7	0.0489 JB	0.0133	5.66	1
11031	123789-HxCDD	19408-74-3	0.0838 JB	0.0119	5.66	1
11031	1234678-HpCDD	35822-46-9	0.726 JB	0.0251	5.66	1
11031	OCDD	3268-87-9	6.93 JB	0.0330	11.3	1
11031	2378-TCDF	51207-31-9	0.0107 U	0.0107	1.13	1
11031	12378-PeCDF	57117-41-6	0.0269 JB	0.00566	5.66	1
11031	23478-PeCDF	57117-31-4	0.0501 JB	0.00624	5.66	1
11031	123478-HxCDF	70648-26-9	0.0546 JBQ	0.0207	5.66	1
11031	123678-HxCDF	57117-44-9	0.0538 JB	0.0135	5.66	1
11031	123789-HxCDF	72918-21-9	0.0581 JB	0.0109	5.66	1
11031	234678-HxCDF	60851-34-5	0.0600 JBQ	0.00855	5.66	1
11031	1234678-HpCDF	67562-39-4	0.232 JB	0.0140	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0702 JBQ	0.0156	5.66	1
11031	OCDF	39001-02-0	0.728 JB	0.0341	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-242-SA5A-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-242-SA5A-SB-2.5-3.5

LLI Sample # SW 6259110
LLI Group # 1242332
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/14/2011 15:54

Submitted: 04/15/2011 09:55
Reported: 05/10/2011 11:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD242 SDG#: DX072-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 02:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401B	Sample number(s): 6259104-6259109								
Moisture Content by 160.3					100		80-120		
Batch number: 11129162401A	Sample number(s): 6259110								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108002	Sample number(s): 6259108-6259110								
2378-TCDD	0.0284 J	0.0133	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0354 J	0.0119	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0288 J	0.0125	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0367 J	0.0114	5.00	ng/kg	108		76-134		
123789-HxCDD	0.0531 J	0.00990	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.194 J	0.0151	5.00	ng/kg	107		70-140		
OCDD	0.428 J	0.0227	10.0	ng/kg	108		78-144		
2378-TCDF	0.0112 J	0.0110	1.00	ng/kg	120		75-158		
12378-PeCDF	0.0353 J	0.00620	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0901 J	0.00690	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0844 J	0.0187	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0439 J	0.0123	5.00	ng/kg	110		84-130		
123789-HxCDF	0.0731 J	0.00890	5.00	ng/kg	108		78-130		
234678-HxCDF	0.0328 J	0.00670	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0892 J	0.0115	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0492 J	0.0106	5.00	ng/kg	111		78-138		
OCDF	0.158 J	0.0210	10.0	ng/kg	111		63-170		
Batch number: 11116002	Sample number(s): 6259104								
2378-TCDD	0.0262 J	0.0200	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0199 U	0.0199	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0285 J	0.0148	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0370 J	0.0160	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0614 J	0.0157	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.247 J	0.0180	5.00	ng/kg	98		70-140		
OCDD	0.449 J	0.0191	10.0	ng/kg	99		78-144		
2378-TCDF	0.0380 J	0.0183	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0555 J	0.00980	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0640 J	0.0111	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0658 J	0.0183	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0601 J	0.0136	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0973 J	0.0199	5.00	ng/kg	94		78-130		
234678-HxCDF	0.104 J	0.0128	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.149 J	0.00680	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0979 J	0.0169	5.00	ng/kg	97		78-138		
OCDF	0.273 J	0.0404	10.0	ng/kg	95		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122003	Sample number(s): 6259105-6259107									
2378-TCDD	0.0183	J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512	J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242	J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426	J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398	J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173	J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359	J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143	U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563	J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781	J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612	J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458	J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821	J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520	J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881	J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487	J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148	J	0.0212	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401B	Sample number(s): 6259104-6259109 BKG: P259085								
Moisture Content by 160.3						9.0	9.0	0	20
Batch number: 11129162401A	Sample number(s): 6259110 BKG: P259054								
Moisture Content by 160.3						14.6	14.7	1	20
Batch number: 11122003	Sample number(s): 6259105-6259107 UNSPK: 6259105								
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259108	74	69	61	76	75	65
6259109	74	69	64	79	75	66
6259110	76	64	31	47	74	65
Blank	82	72	30	46	81	70
OPR	71	64	40	58	71	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259108	88	60	56	84	73	74
6259109	91	59	53	81	75	75
6259110	53	57	47	79	71	61
Blank	52	65	59	93	80	70
OPR	67	58	54	88	73	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259108	75	77	73	70	68	77
6259109	77	78	73	69	68	78
6259110	69	76	69	62	68	74
Blank	78	86	80	75	73	82
OPR	77	76	73	68	62	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11116002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259104	56	55	41	51	51	42
Blank	57	51	38	49	51	38
OPR	55	53	41	53	56	48
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259104	70	40	31	78	64	63
Blank	68	33	26	82	62	64
OPR	72	41	32	82	61	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242332
Reported: 05/10/11 at 11:12 AM

Surrogate Quality Control

6259104	63	62	63	52	52	75
Blank	65	64	62	54	50	62
OPR	67	68	67	57	51	61
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6259105	73	74	75	79	80	78
6259106	73	74	60	68	80	80
6259107	68	70	72	78	76	71
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6259105	89	73	70	82	76	83
6259106	78	72	71	84	77	85
6259107	85	62	54	81	73	81
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6259105	86	83	82	81	71	80
6259106	86	85	81	79	70	78
6259107	80	80	77	73	65	74
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1242332 6259104-1D

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Montes

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SA5A						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	4-Encores										X	X											
DUP14-~~SA5C~~-QC-041411	04.14.11	1016	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-058-SA5A-SB-3.5MS	04.14.11	1005	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-058-SA5A-SB-3.0-4.0MS	04.14.11	1009	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
SL-059-SA5A-SB-3.5	04.14.11	1101	SOIL	NONE	4-Encores										X	X											
SL-059-SA5A-SB-3.0-4.0	04.14.11	1106	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-065-SA5A-SB-4.5	04.14.11	1254	SOIL	NONE	4-Encores										X	X											
SL-065-SA5A-SB-4.0-5.0	04.14.11	1258	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-242-SA5A-SB-3.0	04.14.11	1549	SOIL	NONE	5-Encores										X	X	X										
SL-242-SA5A-SB-2.5-3.5	04.14.11	1554	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041411	04.14.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/14/2011 / 1700

Received for Laboratory by: (Signature) — 4/15/11 955

Received by: (Signature) — Date/Time

Airbill No.(s): 8695 1367 6216; 8700 5932 3168; 8700 5930 9896

Laboratory: Lancaster Laboratories, Inc.

Sample ID DUP14 was updated to DUP14-SA5A-QC-041411 per PH. NLM 4/19/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/16/2011
Group Number: 1242489
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-062-SA8N-SS-0.0-0.5 Soil	6260139
SL-067-SA8N-SS-0.0-0.5 Soil	6260140
SL-141-SA8N-SS-0.0-0.5 Soil	6260141
SL-041-SA5A-SB-4.0-5.0 Soil	6260142
SL-044-SA5A-SB-3.0-4.0 Soil	6260143
SL-052-SA5A-SB-4.0-5.0 Soil	6260144
SL-243-SA5A-SB-4.0-5.0 Soil	6260145

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Jaime L. Ferguson
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.13	1
11031	12378-PeCDD	40321-76-4	0.0401 JBQ	0.0165	5.67	1
11031	123478-HxCDD	39227-28-6	0.0468 JBQ	0.0195	5.67	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0192	5.67	1
11031	123789-HxCDD	19408-74-3	0.141 JB	0.0170	5.67	1
11031	1234678-HpCDD	35822-46-9	1.56 JB	0.0421	5.67	1
11031	OCDD	3268-87-9	17.7 B	0.0261	11.3	1
11031	2378-TCDF	51207-31-9	0.120 JBQ	0.0644	1.13	1
11031	12378-PeCDF	57117-41-6	0.331 JB	0.0225	5.67	1
11031	23478-PeCDF	57117-31-4	0.188 JB	0.0261	5.67	1
11031	123478-HxCDF	70648-26-9	0.445 JB	0.0338	5.67	1
11031	123678-HxCDF	57117-44-9	0.0803 JBQ	0.0225	5.67	1
11031	123789-HxCDF	72918-21-9	0.117 JB	0.0211	5.67	1
11031	234678-HxCDF	60851-34-5	0.133 JBQ	0.0167	5.67	1
11031	1234678-HpCDF	67562-39-4	1.60 JB	0.0207	5.67	1
11031	1234789-HpCDF	55673-89-7	0.0542 JBQ	0.0269	5.67	1
11031	OCDF	39001-02-0	6.87 JB	0.0378	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-062-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

REVISED

Sample Description: SL-062-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA8N-SS-0.0-0.5

LLI Sample # SW 6260139
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:05

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7206 SDG#: DX072-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 03:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0137	U	0.0137	1.20	1
11031	12378-PeCDD	40321-76-4	0.0557	JB	0.0185	5.98	1
11031	123478-HxCDD	39227-28-6	0.0647	JB	0.0228	5.98	1
11031	123678-HxCDD	57653-85-7	0.253	JB	0.0235	5.98	1
11031	123789-HxCDD	19408-74-3	0.170	JB	0.0220	5.98	1
11031	1234678-HpCDD	35822-46-9	4.73	JB	0.0384	5.98	1
11031	OCDD	3268-87-9	48.2	B	0.0403	12.0	1
11031	2378-TCDF	51207-31-9	0.198	JB	0.0909	1.20	1
11031	12378-PeCDF	57117-41-6	0.621	JB	0.0332	5.98	1
11031	23478-PeCDF	57117-31-4	0.282	JB	0.0330	5.98	1
11031	123478-HxCDF	70648-26-9	0.584	JB	0.0357	5.98	1
11031	123678-HxCDF	57117-44-9	0.138	JBQ	0.0250	5.98	1
11031	123789-HxCDF	72918-21-9	0.125	JB	0.0310	5.98	1
11031	234678-HxCDF	60851-34-5	0.162	JB	0.0245	5.98	1
11031	1234678-HpCDF	67562-39-4	2.01	JB	0.0209	5.98	1
11031	1234789-HpCDF	55673-89-7	0.140	JBQ	0.0338	5.98	1
11031	OCDF	39001-02-0	9.02	JB	0.0262	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-067-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: SL-067-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA8N-SS-0.0-0.5

LLI Sample # SW 6260140
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7207 SDG#: DX072-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 04:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0126 U	0.0126	1.14	1
11031	12378-PeCDD	40321-76-4	0.0451 JBQ	0.0192	5.68	1
11031	123478-HxCDD	39227-28-6	0.0676 JBQ	0.0323	5.68	1
11031	123678-HxCDD	57653-85-7	0.141 JB	0.0325	5.68	1
11031	123789-HxCDD	19408-74-3	0.197 JB	0.0288	5.68	1
11031	1234678-HpCDD	35822-46-9	3.01 JB	0.0386	5.68	1
11031	OCDD	3268-87-9	27.5 B	0.0285	11.4	1
11031	2378-TCDF	51207-31-9	0.144 JBQ	0.0740	1.14	1
11031	12378-PeCDF	57117-41-6	0.758 JB	0.0261	5.68	1
11031	23478-PeCDF	57117-31-4	0.205 JBQ	0.0288	5.68	1
11031	123478-HxCDF	70648-26-9	0.485 JB	0.0302	5.68	1
11031	123678-HxCDF	57117-44-9	0.0877 JB	0.0205	5.68	1
11031	123789-HxCDF	72918-21-9	0.118 JBQ	0.0224	5.68	1
11031	234678-HxCDF	60851-34-5	0.121 JBQ	0.0167	5.68	1
11031	1234678-HpCDF	67562-39-4	1.51 JB	0.0180	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0749 JB	0.0279	5.68	1
11031	OCDF	39001-02-0	6.09 JB	0.0360	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA8N-SS-0.0-0.5

LLI Sample # SW 6260141
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 08:35

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7208 SDG#: DX072-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 05:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0115 U	0.0115	1.11	1
11031	12378-PeCDD	40321-76-4	0.0196 JBQ	0.0131	5.56	1
11031	123478-HxCDD	39227-28-6	0.0147 JBQ	0.0115	5.56	1
11031	123678-HxCDD	57653-85-7	0.0223 JBQ	0.0114	5.56	1
11031	123789-HxCDD	19408-74-3	0.0525 JBQ	0.0101	5.56	1
11031	1234678-HpCDD	35822-46-9	0.215 JB	0.0169	5.56	1
11031	OCDD	3268-87-9	0.675 JB	0.0233	11.1	1
11031	2378-TCDF	51207-31-9	0.00891 U	0.00891	1.11	1
11031	12378-PeCDF	57117-41-6	0.0184 JBQ	0.00643	5.56	1
11031	23478-PeCDF	57117-31-4	0.0436 JBQ	0.00609	5.56	1
11031	123478-HxCDF	70648-26-9	0.0158 JBQ	0.00947	5.56	1
11031	123678-HxCDF	57117-44-9	0.0217 JB	0.00688	5.56	1
11031	123789-HxCDF	72918-21-9	0.0736 JB	0.00744	5.56	1
11031	234678-HxCDF	60851-34-5	0.0441 JBQ	0.00564	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0612 JB	0.00643	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0429 JBQ	0.00958	5.56	1
11031	OCDF	39001-02-0	0.127 JBQ	0.0195	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-041-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-041-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5A-SB-4.0-5.0

LLI Sample # SW 6260142
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 15:38

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7209 SDG#: DX072-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 06:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0120 U	0.0120	1.11	1
11031	12378-PeCDD	40321-76-4	0.0404 JBQ	0.0133	5.53	1
11031	123478-HxCDD	39227-28-6	0.0352 JB	0.0134	5.53	1
11031	123678-HxCDD	57653-85-7	0.0531 JB	0.0137	5.53	1
11031	123789-HxCDD	19408-74-3	0.0697 JB	0.0127	5.53	1
11031	1234678-HpCDD	35822-46-9	0.539 JBQ	0.0232	5.53	1
11031	OCDD	3268-87-9	4.24 JB	0.0307	11.1	1
11031	2378-TCDF	51207-31-9	0.0124 JBQ	0.00943	1.11	1
11031	12378-PeCDF	57117-41-6	0.0280 JB	0.00644	5.53	1
11031	23478-PeCDF	57117-31-4	0.0796 JB	0.00633	5.53	1
11031	123478-HxCDF	70648-26-9	0.0494 JB	0.00932	5.53	1
11031	123678-HxCDF	57117-44-9	0.0374 JBQ	0.00744	5.53	1
11031	123789-HxCDF	72918-21-9	0.119 JB	0.00888	5.53	1
11031	234678-HxCDF	60851-34-5	0.0621 JB	0.00733	5.53	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00755	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0955 JB	0.0117	5.53	1
11031	OCDF	39001-02-0	0.302 JBQ	0.0226	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

REVISED

Sample Description: **SL-044-SA5A-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5A-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5A-SB-3.0-4.0

LLI Sample # SW 6260143
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 12:27

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7210 SDG#: DX072-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 07:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11116162401B	04/26/2011 20:37	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0112 U	0.0112	1.15	1
11031	12378-PeCDD	40321-76-4	0.0110 U	0.0110	5.73	1
11031	123478-HxCDD	39227-28-6	0.0117 JBQ	0.0105	5.73	1
11031	123678-HxCDD	57653-85-7	0.0217 JB	0.0106	5.73	1
11031	123789-HxCDD	19408-74-3	0.0302 JB	0.00978	5.73	1
11031	1234678-HpCDD	35822-46-9	0.267 JB	0.0158	5.73	1
11031	OCDD	3268-87-9	0.654 JB	0.0231	11.5	1
11031	2378-TCDF	51207-31-9	0.0180 JBQ	0.00944	1.15	1
11031	12378-PeCDF	57117-41-6	0.0130 JBQ	0.00541	5.73	1
11031	23478-PeCDF	57117-31-4	0.0494 JB	0.00575	5.73	1
11031	123478-HxCDF	70648-26-9	0.0148 JBQ	0.00898	5.73	1
11031	123678-HxCDF	57117-44-9	0.0109 JBQ	0.00633	5.73	1
11031	123789-HxCDF	72918-21-9	0.00783 U	0.00783	5.73	1
11031	234678-HxCDF	60851-34-5	0.0366 JB	0.00621	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0599 JBQ	0.00610	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0368 JBQ	0.00932	5.73	1
11031	OCDF	39001-02-0	0.122 JB	0.0183	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-052-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: SL-052-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5A-SB-4.0-5.0

LLI Sample # SW 6260144
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 09:34

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7211 SDG#: DX072-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 08:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0123	U	0.0123	1.14	1
11031	12378-PeCDD	40321-76-4	0.0127	U	0.0127	5.70	1
11031	123478-HxCDD	39227-28-6	0.0110	U	0.0110	5.70	1
11031	123678-HxCDD	57653-85-7	0.0209	JB	0.0110	5.70	1
11031	123789-HxCDD	19408-74-3	0.0197	JB	0.0105	5.70	1
11031	1234678-HpCDD	35822-46-9	0.266	JBQ	0.0174	5.70	1
11031	OCDD	3268-87-9	1.19	JB	0.0278	11.4	1
11031	2378-TCDF	51207-31-9	0.0189	JB	0.00974	1.14	1
11031	12378-PeCDF	57117-41-6	0.00607	U	0.00607	5.70	1
11031	23478-PeCDF	57117-31-4	0.0559	JB	0.00607	5.70	1
11031	123478-HxCDF	70648-26-9	0.0140	JBQ	0.00974	5.70	1
11031	123678-HxCDF	57117-44-9	0.00788	JBQ	0.00664	5.70	1
11031	123789-HxCDF	72918-21-9	0.0450	JB	0.00710	5.70	1
11031	234678-HxCDF	60851-34-5	0.0307	JBQ	0.00596	5.70	1
11031	1234678-HpCDF	67562-39-4	0.0883	JB	0.00630	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0223	JBQ	0.00882	5.70	1
11031	OCDF	39001-02-0	0.206	JB	0.0188	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: **SL-243-SA5A-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-243-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-243-SA5A-SB-4.0-5.0

LLI Sample # SW 6260145
LLI Group # 1242489
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/15/2011 10:46

Submitted: 04/16/2011 10:10
Reported: 05/12/2011 14:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7212 SDG#: DX072-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11108002	04/24/2011 08:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11108002	04/18/2011 13:25	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11129162401A	05/09/2011 18:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

REVISED

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242489
Reported: 05/12/11 at 02:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11116162401B	Sample number(s): 6260142-6260143								
Moisture Content by 160.3					100		80-120		
Batch number: 11129162401A	Sample number(s): 6260139-6260141,6260144-6260145								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11108002	Sample number(s): 6260139-6260145								
2378-TCDD	0.0284 J	0.0133	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0354 J	0.0119	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0288 J	0.0125	5.00	ng/kg	109		70-164		
123678-HxCDD	0.0367 J	0.0114	5.00	ng/kg	108		76-134		
123789-HxCDD	0.0531 J	0.00990	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.194 J	0.0151	5.00	ng/kg	107		70-140		
OCDD	0.428 J	0.0227	10.0	ng/kg	108		78-144		
2378-TCDF	0.0112 J	0.0110	1.00	ng/kg	120		75-158		
12378-PeCDF	0.0353 J	0.00620	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0901 J	0.00690	5.00	ng/kg	110		68-160		
123478-HxCDF	0.0844 J	0.0187	5.00	ng/kg	112		72-134		
123678-HxCDF	0.0439 J	0.0123	5.00	ng/kg	110		84-130		
123789-HxCDF	0.0731 J	0.00890	5.00	ng/kg	108		78-130		
234678-HxCDF	0.0328 J	0.00670	5.00	ng/kg	113		70-156		
1234678-HpCDF	0.0892 J	0.0115	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0492 J	0.0106	5.00	ng/kg	111		78-138		
OCDF	0.158 J	0.0210	10.0	ng/kg	111		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11116162401B	Sample number(s): 6260142-6260143					BKG: P259085			
Moisture Content by 160.3						9.0	9.0	0	20
Batch number: 11129162401A	Sample number(s): 6260139-6260141,6260144-6260145					BKG: P259054			
Moisture Content by 160.3						14.6	14.7	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242489
Reported: 05/12/11 at 02:13 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11108002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6260139	84	71	38	57	78	70
6260140	76	73	54	73	76	67
6260141	77	67	43	62	74	61
6260142	71	66	47	62	74	64
6260143	73	68	60	73	74	70
6260144	74	67	52	71	74	66
6260145	77	70	48	67	76	69
Blank	82	72	30	46	81	70
OPR	71	64	40	58	71	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6260139	66	60	49	87	78	71
6260140	84	61	55	84	76	76
6260141	74	54	46	80	75	71
6260142	71	57	49	79	70	70
6260143	81	62	56	83	71	73
6260144	79	59	53	82	71	75
6260145	75	64	62	86	75	76
Blank	52	65	59	93	80	70
OPR	67	58	54	88	73	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6260139	76	81	73	68	76	83
6260140	77	78	74	68	72	78
6260141	72	79	69	65	69	78
6260142	69	75	66	60	67	72
6260143	75	76	71	67	69	72
6260144	77	77	70	65	68	74
6260145	80	80	76	75	71	78
Blank	78	86	80	75	73	82
OPR	77	76	73	68	62	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1242489 Sample # 6260139-45

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diquat/Paraquat EPA 16135	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 80158 Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Bisanilino EPA 8330A	**Cyanide EPA 9012B	**Triphenyle EPA 80158	**Glycols EPA 80158	**Alcohols EPA 80158	
Samplers Signature: Stefan J Britsch																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-062-SA8N-SS-0.0-0.5	04.15.11	0905	SOIL	NONE	1 SS sleeve				X	X															
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-067-SA8N-SS-0.0-0.5	04.15.11	1035	SOIL	NONE	1 SS sleeve				X	X															
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	2-16 oz jars		X	X			X	X	X	X		X	X	X	X	X	X	X	X		
SL-141-SA8N-SS-0.0-0.5	04.15.11	0835	SOIL	NONE	1 SS sleeve				X	X															
Relinquished by: (Signature)	Date/Time 04/15/2011 / 1700		Received for Laboratory by: (Signature)																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 4/16/11 1110		Airbill No.(s) 8700 5932 2919																						

Acct# 1393 Gp# 1242489 Sample# 6260139-45

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Perchlorate EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Dioxin/furans Confirmation by EPA 8290 (10%)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TRH-DRO EPA 8015B §	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Total/Amyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores										X	X											
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-044-SA5A-SB-3.5	04.15.11	1223	SOIL	NONE	4-Encores										X	X											
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-253-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores										X	X	X										
SL-253-SA5A-SB-4.0-5.0	04.15.11	1048	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/15/2011 / 1708 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 4/16/11 10:10 — Airbill No.(s): 8700 5932 2919; 8700 5932 2920

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec A# 13013 G# 1242489 S# G26 0139-45

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, April 27, 2011 10:46 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy; Burgesser, Todd
Subject: Sample Correction

Attachments: COC subsurface & surface 04 15 11.xlsx; HSA_SA5A_sample_tracking_042611tb(2).xlsx

COC subsurface & surface 04 15...

HSA_SA5A_sample _tracking_04261...

Nicole

I recently found a mistake with a sample collected on 4/15/2011. It was named SL-253, but should be SL-243. I have attached a corrected COC.

Peggy and Todd, I made the correction in the 5A sample tracking spreadsheet.

Thanks,

Pam

A#13013
G#1242489 S#G2C0139-45

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5A-SB-4.5	04.15.11	1535	SOIL	NONE	4-Encores										X	X											
SL-041-SA5A-SB-4.0-5.0	04.15.11	1538	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-044-SA5A-SB-3.5	04.15.11	1223	SOIL	NONE	4-Encores										X	X											
SL-044-SA5A-SB-3.0-4.0	04.15.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-052-SA5A-SB-4.5	04.15.11	0930	SOIL	NONE	5-Encores										X	X	X										
SL-052-SA5A-SB-4.0-5.0	04.15.11	0934	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-243-SA5A-SB-4.5	04.15.11	1041	SOIL	NONE	5-Encores										X	X	X										
SL-243-SA5A-SB-4.0-5.0	04.15.11	1046	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-041511	04.15.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 04/15/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8700 5932 2919; 8700 5932 2920	

Amended COC

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242946
SDG: DX072
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-094-SA8N-SS-0.0-0.5 Soil	6262850
SL-095-SA8N-SS-0.0-0.5 Soil	6262851
SL-096-SA8N-SS-0.0-0.5 Soil	6262852
SL-097-SA8N-SS-0.0-0.5 Soil	6262853
SL-122-SA8N-SS-0.0-0.5 Soil	6262854
SL-135-SA8N-SS-0.0-0.5 Soil	6262855

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	JB	0.0119	1.07	1
11031	12378-PeCDD	40321-76-4	0.184	JB	0.0179	5.35	1
11031	123478-HxCDD	39227-28-6	0.135	JBQ	0.0275	5.35	1
11031	123678-HxCDD	57653-85-7	0.344	JB	0.0277	5.35	1
11031	123789-HxCDD	19408-74-3	0.467	JB	0.0272	5.35	1
11031	1234678-HpCDD	35822-46-9	2.63	JB	0.0283	5.35	1
11031	OCDD	3268-87-9	24.7	B	0.0280	10.7	1
11031	2378-TCDF	51207-31-9	0.125	JB	0.0213	1.07	1
11031	12378-PeCDF	57117-41-6	0.276	JB	0.0125	5.35	1
11031	23478-PeCDF	57117-31-4	0.268	JB	0.0128	5.35	1
11031	123478-HxCDF	70648-26-9	0.296	JB	0.0201	5.35	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0166	5.35	1
11031	123789-HxCDF	72918-21-9	0.575	JB	0.0219	5.35	1
11031	234678-HxCDF	60851-34-5	0.139	JBQ	0.0169	5.35	1
11031	1234678-HpCDF	67562-39-4	0.484	JB	0.0125	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0852	JB	0.0256	5.35	1
11031	OCDF	39001-02-0	1.02	JB	0.0310	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-094-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA8N-SS-0.0-0.5

LLI Sample # SW 6262850
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7213 SDG#: DX072-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 06:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0146 JBQ	0.0128	1.13	1
11031	12378-PeCDD	40321-76-4	0.0993 JBQ	0.0183	5.63	1
11031	123478-HxCDD	39227-28-6	0.0722 JBQ	0.0300	5.63	1
11031	123678-HxCDD	57653-85-7	0.295 JB	0.0313	5.63	1
11031	123789-HxCDD	19408-74-3	0.388 JB	0.0303	5.63	1
11031	1234678-HpCDD	35822-46-9	2.68 JB	0.0325	5.63	1
11031	OCDD	3268-87-9	26.5 B	0.0321	11.3	1
11031	2378-TCDF	51207-31-9	0.103 JBQ	0.0215	1.13	1
11031	12378-PeCDF	57117-41-6	0.170 JBQ	0.0128	5.63	1
11031	23478-PeCDF	57117-31-4	0.222 JB	0.0128	5.63	1
11031	123478-HxCDF	70648-26-9	0.240 JB	0.0213	5.63	1
11031	123678-HxCDF	57117-44-9	0.0967 JB	0.0175	5.63	1
11031	123789-HxCDF	72918-21-9	0.339 JBQ	0.0255	5.63	1
11031	234678-HxCDF	60851-34-5	0.121 JB	0.0181	5.63	1
11031	1234678-HpCDF	67562-39-4	0.458 JB	0.0130	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0642 JBQ	0.0310	5.63	1
11031	OCDF	39001-02-0	0.955 JB	0.0337	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA8N-SS-0.0-0.5

LLI Sample # SW 6262851
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:00

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7214 SDG#: DX072-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 07:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151	U	0.0151	1.06	1
11031	12378-PeCDD	40321-76-4	0.0176	U	0.0176	5.32	1
11031	123478-HxCDD	39227-28-6	0.0704	JBQ	0.0306	5.32	1
11031	123678-HxCDD	57653-85-7	0.335	JB	0.0316	5.32	1
11031	123789-HxCDD	19408-74-3	0.428	JB	0.0302	5.32	1
11031	1234678-HpCDD	35822-46-9	2.87	JB	0.0408	5.32	1
11031	OCDD	3268-87-9	26.0	B	0.0277	10.6	1
11031	2378-TCDF	51207-31-9	0.106	JB	0.0287	1.06	1
11031	12378-PeCDF	57117-41-6	0.172	JB	0.0150	5.32	1
11031	23478-PeCDF	57117-31-4	0.281	JB	0.0159	5.32	1
11031	123478-HxCDF	70648-26-9	0.337	JBQ	0.0251	5.32	1
11031	123678-HxCDF	57117-44-9	0.0833	JBQ	0.0205	5.32	1
11031	123789-HxCDF	72918-21-9	0.459	JB	0.0286	5.32	1
11031	234678-HxCDF	60851-34-5	0.113	JB	0.0221	5.32	1
11031	1234678-HpCDF	67562-39-4	0.547	JB	0.0162	5.32	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0353	5.32	1
11031	OCDF	39001-02-0	1.21	JB	0.0431	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA8N-SS-0.0-0.5

LLI Sample # SW 6262852
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:25

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7215 SDG#: DX072-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 13:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0151	U	0.0151	1.14	1
11031	12378-PeCDD	40321-76-4	0.0953	JB	0.0247	5.72	1
11031	123478-HxCDD	39227-28-6	0.0670	JBQ	0.0352	5.72	1
11031	123678-HxCDD	57653-85-7	0.481	JB	0.0359	5.72	1
11031	123789-HxCDD	19408-74-3	0.714	JB	0.0345	5.72	1
11031	1234678-HpCDD	35822-46-9	3.09	JB	0.0396	5.72	1
11031	OCDD	3268-87-9	29.5	B	0.0334	11.4	1
11031	2378-TCDF	51207-31-9	0.136	JBQ	0.0261	1.14	1
11031	12378-PeCDF	57117-41-6	0.213	JB	0.0181	5.72	1
11031	23478-PeCDF	57117-31-4	0.206	JB	0.0185	5.72	1
11031	123478-HxCDF	70648-26-9	0.333	JB	0.0292	5.72	1
11031	123678-HxCDF	57117-44-9	0.104	JBQ	0.0255	5.72	1
11031	123789-HxCDF	72918-21-9	0.804	JB	0.0307	5.72	1
11031	234678-HxCDF	60851-34-5	0.114	JB	0.0228	5.72	1
11031	1234678-HpCDF	67562-39-4	0.620	JB	0.0183	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0972	JB	0.0311	5.72	1
11031	OCDF	39001-02-0	1.42	JB	0.0407	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA8N-SS-0.0-0.5

LLI Sample # SW 6262853
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 15:40

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7216 SDG#: DX072-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11115002	04/29/2011 14:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11115002	04/25/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0549	JBQ	0.0223	1.04	1
11031	12378-PeCDD	40321-76-4	0.176	JBQ	0.0416	5.19	1
11031	123478-HxCDD	39227-28-6	0.132	JB	0.0266	5.19	1
11031	123678-HxCDD	57653-85-7	0.236	JB	0.0273	5.19	1
11031	123789-HxCDD	19408-74-3	0.353	JBQ	0.0262	5.19	1
11031	1234678-HpCDD	35822-46-9	2.88	JB	0.0316	5.19	1
11031	OCDD	3268-87-9	19.6	B	0.0297	10.4	1
11031	2378-TCDF	51207-31-9	0.363	JB	0.0433	1.04	1
11031	12378-PeCDF	57117-41-6	0.323	JB	0.0181	5.19	1
11031	23478-PeCDF	57117-31-4	0.483	JB	0.0222	5.19	1
11031	123478-HxCDF	70648-26-9	0.315	JB	0.0252	5.19	1
11031	123678-HxCDF	57117-44-9	0.179	JB	0.0224	5.19	1
11031	123789-HxCDF	72918-21-9	0.246	JB	0.0304	5.19	1
11031	234678-HxCDF	60851-34-5	0.248	JBQ	0.0248	5.19	1
11031	1234678-HpCDF	67562-39-4	0.760	JB	0.0153	5.19	1
11031	1234789-HpCDF	55673-89-7	0.191	JB	0.0289	5.19	1
11031	OCDF	39001-02-0	1.14	JB	0.0338	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-122-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SS-0.0-0.5

LLI Sample # SW 6262854
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 13:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7217 SDG#: DX072-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116001	04/28/2011 06:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11116001	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0171	U	0.0171	1.08	1
11031	12378-PeCDD	40321-76-4	0.199	JB	0.0312	5.42	1
11031	123478-HxCDD	39227-28-6	0.168	JB	0.0231	5.42	1
11031	123678-HxCDD	57653-85-7	0.561	JB	0.0239	5.42	1
11031	123789-HxCDD	19408-74-3	0.543	JB	0.0212	5.42	1
11031	1234678-HpCDD	35822-46-9	10.2	B	0.0299	5.42	1
11031	OCDD	3268-87-9	92.0	B	0.0321	10.8	1
11031	2378-TCDF	51207-31-9	0.113	JB	0.0364	1.08	1
11031	12378-PeCDF	57117-41-6	0.753	JB	0.0144	5.42	1
11031	23478-PeCDF	57117-31-4	0.351	JB	0.0165	5.42	1
11031	123478-HxCDF	70648-26-9	0.251	JB	0.0177	5.42	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0154	5.42	1
11031	123789-HxCDF	72918-21-9	0.251	JB	0.0198	5.42	1
11031	234678-HxCDF	60851-34-5	0.140	JBQ	0.0164	5.42	1
11031	1234678-HpCDF	67562-39-4	1.08	JB	0.00941	5.42	1
11031	1234789-HpCDF	55673-89-7	0.133	JBQ	0.0176	5.42	1
11031	OCDF	39001-02-0	2.80	JB	0.0247	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA8N-SS-0.0-0.5

LLI Sample # SW 6262855
LLI Group # 1242946
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:15

Submitted: 04/20/2011 09:15
Reported: 05/09/2011 08:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7218 SDG#: DX072-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11116001	04/28/2011 07:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11116001	04/26/2011 13:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401A	Sample number(s): 6262850-6262853								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262854-6262855								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11115002	Sample number(s): 6262850-6262853								
2378-TCDD	0.0462 J	0.0116	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0571 J	0.0109	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0421 J	0.0111	5.00	ng/kg	88		70-164		
123678-HxCDD	0.0348 J	0.0118	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0543 J	0.0116	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.231 J	0.0143	5.00	ng/kg	87		70-140		
OCDD	0.458 J	0.0179	10.0	ng/kg	89		78-144		
2378-TCDF	0.0227 J	0.0100	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0538 J	0.00570	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0593 J	0.00560	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0469 J	0.00900	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0401 J	0.00800	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0854 J	0.0103	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0651 J	0.00840	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.126 J	0.00770	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0849 J	0.0129	5.00	ng/kg	90		78-138		
OCDF	0.215 J	0.0161	10.0	ng/kg	91		63-170		
Batch number: 11116001	Sample number(s): 6262854-6262855								
2378-TCDD	0.0319 J	0.0138	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0569 J	0.0162	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0389 J	0.0139	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0462 J	0.0144	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0481 J	0.0139	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.211 J	0.0146	5.00	ng/kg	102		70-140		
OCDD	0.517 J	0.0154	10.0	ng/kg	100		78-144		
2378-TCDF	0.0540 J	0.0155	1.00	ng/kg	109		75-158		
12378-PeCDF	0.0631 J	0.0132	5.00	ng/kg	101		80-134		
23478-PeCDF	0.117 J	0.0142	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0838 J	0.0140	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0727 J	0.0123	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0641 J	0.0162	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0953 J	0.0140	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.221 J	0.00640	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0916 J	0.0106	5.00	ng/kg	99		78-138		
OCDF	0.277 J	0.0208	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401A	Sample number(s): 6262850-6262853					BKG: P262838			
Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11124162401B	Sample number(s): 6262854-6262855					BKG: P262830			
Moisture Content by 160.3						8.2	8.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11115002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262850	84	83	76	90	85	75
6262851	75	75	74	86	79	65
6262852	75	76	68	83	75	66
6262853	75	75	63	71	79	67
Blank	77	78	83	91	84	77
OPR	64	63	68	74	70	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262850	114	63	55	99	89	92
6262851	107	54	43	88	79	85
6262852	102	55	48	85	81	82
6262853	88	60	53	87	79	80
Blank	100	72	68	95	83	91
OPR	82	60	57	84	69	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262850	91	93	86	81	75	93
6262851	83	83	77	70	68	83
6262852	82	82	77	71	68	86
6262853	79	80	74	68	71	80
Blank	88	88	87	82	70	84
OPR	74	77	73	68	58	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242946
Reported: 05/09/11 at 08:46 AM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11116001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262854	66	62	58	63	58	53
6262855	77	70	65	72	70	64
Blank	73	69	69	78	71	69
OPR	52	51	51	58	53	48
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262854	77	49	41	77	72	73
6262855	84	55	47	91	77	85
Blank	85	59	52	101	75	81
OPR	66	45	38	78	56	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262854	74	76	66	57	61	81
6262855	87	92	77	76	72	88
Blank	82	81	79	68	68	78
OPR	62	63	59	52	49	55
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1242946 Sample#6262850-55

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by SPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Enceres were collected

Samplers Signature: Stef J Brit

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/60409	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s): 8700 5992 3000, 2996	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2011
Group Number: 1242947
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-138-SA8N-SS-0.0-0.5 Soil	6262856
SL-138-SA8N-SS-0.0-0.5MS Soil	6262857
SL-138-SA8N-SS-0.0-0.5MSD Soil	6262858
SL-139-SA8N-SS-0.0-0.5 Soil	6262859
SL-140-SA8N-SS-0.0-0.5 Soil	6262860
DUP04-SA8N-QC-041911 Soil	6262861
SL-171-SA5A-SB-2.0-3.0 Soil	6262862
SL-126-SA5A-SB-4.0-5.0 Soil	6262863
SL-127-SA5A-SB-2.0-3.0 Soil	6262864
EB06-SA8N-SS-041911 Water	6262865

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0464 JBQ	0.0172	1.08	1
11031	12378-PeCDD	40321-76-4	0.130 JBQ	0.0234	5.42	1
11031	123478-HxCDD	39227-28-6	0.117 JB	0.0477	5.42	1
11031	123678-HxCDD	57653-85-7	0.490 JBQ	0.0488	5.42	1
11031	123789-HxCDD	19408-74-3	0.556 JB	0.0480	5.42	1
11031	1234678-HpCDD	35822-46-9	3.55 JB	0.0343	5.42	1
11031	OCDD	3268-87-9	28.5 B	0.0336	10.8	1
11031	2378-TCDF	51207-31-9	0.231 JB	0.0390	1.08	1
11031	12378-PeCDF	57117-41-6	0.352 JB	0.0202	5.42	1
11031	23478-PeCDF	57117-31-4	0.448 JB	0.0184	5.42	1
11031	123478-HxCDF	70648-26-9	0.225 JB	0.0309	5.42	1
11031	123678-HxCDF	57117-44-9	0.186 JB	0.0276	5.42	1
11031	123789-HxCDF	72918-21-9	0.298 JB	0.0350	5.42	1
11031	234678-HxCDF	60851-34-5	0.229 JB	0.0273	5.42	1
11031	1234678-HpCDF	67562-39-4	0.804 JB	0.0209	5.42	1
11031	1234789-HpCDF	55673-89-7	0.134 JBQ	0.0329	5.42	1
11031	OCDF	39001-02-0	1.29 JB	0.0329	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262856
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 15:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.4	B	0.0306	1.08	1
11031	12378-PeCDD	40321-76-4	113	B	0.0597	5.42	1
11031	123478-HxCDD	39227-28-6	114	B	0.0528	5.42	1
11031	123678-HxCDD	57653-85-7	113	B	0.0544	5.42	1
11031	123789-HxCDD	19408-74-3	112	B	0.0519	5.42	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0542	5.42	1
11031	OCDD	3268-87-9	253	B	0.0554	10.8	1
11031	2378-TCDF	51207-31-9	23.4	B	0.0685	1.08	1
11031	12378-PeCDF	57117-41-6	111	B	0.0395	5.42	1
11031	23478-PeCDF	57117-31-4	113	B	0.0389	5.42	1
11031	123478-HxCDF	70648-26-9	113	B	0.0631	5.42	1
11031	123678-HxCDF	57117-44-9	113	B	0.0576	5.42	1
11031	123789-HxCDF	72918-21-9	112	B	0.0727	5.42	1
11031	234678-HxCDF	60851-34-5	114	B	0.0592	5.42	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0537	5.42	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0873	5.42	1
11031	OCDF	39001-02-0	229	B	0.0687	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262857
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 16:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0357	1.08	1
11031	12378-PeCDD	40321-76-4	110	B	0.0400	5.38	1
11031	123478-HxCDD	39227-28-6	114	B	0.0529	5.38	1
11031	123678-HxCDD	57653-85-7	112	B	0.0541	5.38	1
11031	123789-HxCDD	19408-74-3	110	B	0.0510	5.38	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0568	5.38	1
11031	OCDD	3268-87-9	254	B	0.0620	10.8	1
11031	2378-TCDF	51207-31-9	23.7	B	0.0554	1.08	1
11031	12378-PeCDF	57117-41-6	111	B	0.0359	5.38	1
11031	23478-PeCDF	57117-31-4	111	B	0.0359	5.38	1
11031	123478-HxCDF	70648-26-9	112	B	0.0707	5.38	1
11031	123678-HxCDF	57117-44-9	111	B	0.0639	5.38	1
11031	123789-HxCDF	72918-21-9	111	B	0.0854	5.38	1
11031	234678-HxCDF	60851-34-5	113	B	0.0699	5.38	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0431	5.38	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0690	5.38	1
11031	OCDF	39001-02-0	228	B	0.0541	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA8N-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-138-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA8N-SS-0.0-0.5

LLI Sample # SW 6262858
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7301 SDG#: DX073-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 17:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0236	JBQ	0.0147	1.04	1
11031	12378-PeCDD	40321-76-4	0.137	JB	0.0200	5.22	1
11031	123478-HxCDD	39227-28-6	0.133	JB	0.0354	5.22	1
11031	123678-HxCDD	57653-85-7	0.403	JB	0.0369	5.22	1
11031	123789-HxCDD	19408-74-3	0.544	JB	0.0351	5.22	1
11031	1234678-HpCDD	35822-46-9	3.17	JB	0.0343	5.22	1
11031	OCDD	3268-87-9	29.3	B	0.0328	10.4	1
11031	2378-TCDF	51207-31-9	0.0910	JB	0.0259	1.04	1
11031	12378-PeCDF	57117-41-6	0.236	JB	0.0143	5.22	1
11031	23478-PeCDF	57117-31-4	0.286	JB	0.0138	5.22	1
11031	123478-HxCDF	70648-26-9	0.176	JB	0.0261	5.22	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0236	5.22	1
11031	123789-HxCDF	72918-21-9	0.276	JB	0.0336	5.22	1
11031	234678-HxCDF	60851-34-5	0.190	JB	0.0261	5.22	1
11031	1234678-HpCDF	67562-39-4	0.666	JBQ	0.0206	5.22	1
11031	1234789-HpCDF	55673-89-7	0.139	JB	0.0341	5.22	1
11031	OCDF	39001-02-0	1.16	JB	0.0376	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-139-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA8N-SS-0.0-0.5

LLI Sample # SW 6262859
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:25

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7302 SDG#: DX073-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 18:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.188	JBQ	0.0427	1.14	1
11031	12378-PeCDD	40321-76-4	1.33	JB	0.148	5.72	1
11031	123478-HxCDD	39227-28-6	4.49	JB	0.0791	5.72	1
11031	123678-HxCDD	57653-85-7	5.04	JB	0.0817	5.72	1
11031	123789-HxCDD	19408-74-3	4.17	JB	0.0793	5.72	1
11031	1234678-HpCDD	35822-46-9	171	B	0.111	5.72	1
11031	OCDD	3268-87-9	736	B	0.0889	11.4	1
11031	2378-TCDF	51207-31-9	0.393	JB	0.0883	1.14	1
11031	12378-PeCDF	57117-41-6	0.744	JB	0.0331	5.72	1
11031	23478-PeCDF	57117-31-4	0.819	JB	0.0332	5.72	1
11031	123478-HxCDF	70648-26-9	1.06	JB	0.0431	5.72	1
11031	123678-HxCDF	57117-44-9	0.683	JB	0.0391	5.72	1
11031	123789-HxCDF	72918-21-9	0.532	JB	0.0519	5.72	1
11031	234678-HxCDF	60851-34-5	0.582	JB	0.0410	5.72	1
11031	1234678-HpCDF	67562-39-4	6.37	B	0.0423	5.72	1
11031	1234789-HpCDF	55673-89-7	0.753	JB	0.0736	5.72	1
11031	OCDF	39001-02-0	11.2	JB	0.0586	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SS-0.0-0.5

LLI Sample # SW 6262860
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:45

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7303 SDG#: DX073-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 19:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165	JBQ	0.0151	1.09	1
11031	12378-PeCDD	40321-76-4	0.111	JB	0.0242	5.43	1
11031	123478-HxCDD	39227-28-6	0.106	JB	0.0421	5.43	1
11031	123678-HxCDD	57653-85-7	0.477	JB	0.0428	5.43	1
11031	123789-HxCDD	19408-74-3	0.549	JB	0.0412	5.43	1
11031	1234678-HpCDD	35822-46-9	3.27	JB	0.0332	5.43	1
11031	OCDD	3268-87-9	24.5	B	0.0315	10.9	1
11031	2378-TCDF	51207-31-9	0.215	JBQ	0.0365	1.09	1
11031	12378-PeCDF	57117-41-6	0.274	JB	0.0191	5.43	1
11031	23478-PeCDF	57117-31-4	0.464	JB	0.0188	5.43	1
11031	123478-HxCDF	70648-26-9	0.258	JB	0.0285	5.43	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0246	5.43	1
11031	123789-HxCDF	72918-21-9	0.263	JBQ	0.0307	5.43	1
11031	234678-HxCDF	60851-34-5	0.176	JBQ	0.0234	5.43	1
11031	1234678-HpCDF	67562-39-4	0.682	JB	0.0206	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0801	JBQ	0.0353	5.43	1
11031	OCDF	39001-02-0	0.997	JB	0.0315	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA8N-QC-041911 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA8N-QC-041911

LLI Sample # SW 6262861
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:05

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7304 SDG#: DX073-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/29/2011 20:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11124162401B	05/04/2011 19:41	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0182 U	0.0182	1.20	1
11031	12378-PeCDD	40321-76-4	0.0819 JB	0.0203	5.98	1
11031	123478-HxCDD	39227-28-6	0.0573 JBQ	0.0218	5.98	1
11031	123678-HxCDD	57653-85-7	0.0791 JB	0.0227	5.98	1
11031	123789-HxCDD	19408-74-3	0.141 JBQ	0.0218	5.98	1
11031	1234678-HpCDD	35822-46-9	0.259 JB	0.0203	5.98	1
11031	OCDD	3268-87-9	0.884 JB	0.0318	12.0	1
11031	2378-TCDF	51207-31-9	0.0220 JBQ	0.0170	1.20	1
11031	12378-PeCDF	57117-41-6	0.0743 JBQ	0.0107	5.98	1
11031	23478-PeCDF	57117-31-4	0.104 JB	0.0109	5.98	1
11031	123478-HxCDF	70648-26-9	0.0614 JBQ	0.0130	5.98	1
11031	123678-HxCDF	57117-44-9	0.0601 J	0.0118	5.98	1
11031	123789-HxCDF	72918-21-9	0.131 JBQ	0.0136	5.98	1
11031	234678-HxCDF	60851-34-5	0.0658 JB	0.0117	5.98	1
11031	1234678-HpCDF	67562-39-4	0.102 JBQ	0.0113	5.98	1
11031	1234789-HpCDF	55673-89-7	0.0696 JB	0.0162	5.98	1
11031	OCDF	39001-02-0	0.194 JB	0.0239	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5A-SB-2.0-3.0

LLI Sample # SW 6262862
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 09:42

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7305 SDG#: DX073-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122002	05/05/2011 00:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11122002	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0757	JB	0.0179	1.16	1
11031	12378-PeCDD	40321-76-4	0.279	JB	0.0193	5.80	1
11031	123478-HxCDD	39227-28-6	0.165	JBQ	0.0178	5.80	1
11031	123678-HxCDD	57653-85-7	0.169	JB	0.0186	5.80	1
11031	123789-HxCDD	19408-74-3	0.171	JB	0.0176	5.80	1
11031	1234678-HpCDD	35822-46-9	0.440	JBQ	0.0273	5.80	1
11031	OCDD	3268-87-9	2.87	JB	0.0308	11.6	1
11031	2378-TCDF	51207-31-9	0.0702	JBQ	0.0136	1.16	1
11031	12378-PeCDF	57117-41-6	0.327	JB	0.0101	5.80	1
11031	23478-PeCDF	57117-31-4	0.293	JB	0.00988	5.80	1
11031	123478-HxCDF	70648-26-9	0.218	JB	0.0201	5.80	1
11031	123678-HxCDF	57117-44-9	0.214	JB	0.0177	5.80	1
11031	123789-HxCDF	72918-21-9	0.192	JB	0.0199	5.80	1
11031	234678-HxCDF	60851-34-5	0.183	JB	0.0152	5.80	1
11031	1234678-HpCDF	67562-39-4	0.289	JB	0.0157	5.80	1
11031	1234789-HpCDF	55673-89-7	0.165	JBQ	0.0220	5.80	1
11031	OCDF	39001-02-0	0.346	JB	0.0276	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5A-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5A-SB-4.0-5.0

LLI Sample # SW 6262863
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:27

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7306 SDG#: DX073-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 01:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.144	JBQ	0.0187	1.11	1
11031	12378-PeCDD	40321-76-4	0.529	JB	0.0255	5.55	1
11031	123478-HxCDD	39227-28-6	0.627	JB	0.0720	5.55	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0755	5.55	1
11031	123789-HxCDD	19408-74-3	1.03	JB	0.0700	5.55	1
11031	1234678-HpCDD	35822-46-9	26.9	B	0.0754	5.55	1
11031	OCDD	3268-87-9	475	B	0.122	11.1	1
11031	2378-TCDF	51207-31-9	0.158	JB	0.0202	1.11	1
11031	12378-PeCDF	57117-41-6	0.569	JB	0.0148	5.55	1
11031	23478-PeCDF	57117-31-4	0.543	JB	0.0149	5.55	1
11031	123478-HxCDF	70648-26-9	0.836	JB	0.0535	5.55	1
11031	123678-HxCDF	57117-44-9	0.553	JB	0.0488	5.55	1
11031	123789-HxCDF	72918-21-9	0.625	JB	0.0540	5.55	1
11031	234678-HxCDF	60851-34-5	0.524	JB	0.0433	5.55	1
11031	1234678-HpCDF	67562-39-4	6.66	B	0.0334	5.55	1
11031	1234789-HpCDF	55673-89-7	0.649	JBQ	0.0464	5.55	1
11031	OCDF	39001-02-0	10.9	JB	0.0478	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5A-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA5A-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5A-SB-2.0-3.0

LLI Sample # SW 6262864
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 11:17

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7307 SDG#: DX073-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 02:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11119162401A	04/29/2011 20:42	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB06-SA8N-SS-041911 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262865
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7308 SDG#: DX073-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.308	U	0.308	2.01	1
10915	12378-PeCDD	40321-76-4	0.499	JBQ	0.408	10.1	1
10915	123478-HxCDD	39227-28-6	0.713	JB	0.337	10.1	1
10915	123678-HxCDD	57653-85-7	0.437	JBQ	0.351	10.1	1
10915	123789-HxCDD	19408-74-3	0.473	JBQ	0.344	10.1	1
10915	1234678-HpCDD	35822-46-9	2.73	JB	0.523	10.1	1
10915	OCDD	3268-87-9	4.69	JB	0.688	20.1	1
10915	2378-TCDF	51207-31-9	0.267	U	0.267	2.01	1
10915	12378-PeCDF	57117-41-6	0.286	JBQ	0.211	10.1	1
10915	23478-PeCDF	57117-31-4	0.646	JB	0.201	10.1	1
10915	123478-HxCDF	70648-26-9	0.574	JB	0.218	10.1	1
10915	123678-HxCDF	57117-44-9	0.451	JB	0.208	10.1	1
10915	123789-HxCDF	72918-21-9	0.588	JB	0.251	10.1	1
10915	234678-HxCDF	60851-34-5	0.488	JBQ	0.192	10.1	1
10915	1234678-HpCDF	67562-39-4	1.22	JB	0.186	10.1	1
10915	1234789-HpCDF	55673-89-7	0.646	JBQ	0.243	10.1	1
10915	OCDF	39001-02-0	1.70	JB	0.660	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	45	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	45	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	28	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	44	24 - 185
13C12-23478-PeCDF	43	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	26	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB06-SA8N-SS-041911 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA8N-SS-041911

LLI Sample # WW 6262865
LLI Group # 1242947
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/19/2011 12:00

Submitted: 04/20/2011 09:15
Reported: 05/10/2011 22:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7308 SDG#: DX073-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122001	05/04/2011 17:27	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11122001	05/02/2011 08:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11119162401A	Sample number(s): 6262862-6262864								
Moisture Content by 160.3					100		80-120		
Batch number: 11124162401B	Sample number(s): 6262856-6262861								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11117001	Sample number(s): 6262856-6262861,6262863-6262864								
2378-TCDD	0.0430 J	0.0175	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0524 J	0.0149	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0460 J	0.0135	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0426 J	0.0142	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0546 J	0.0135	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.222 J	0.0201	5.00	ng/kg	102		70-140		
OCDD	0.573 J	0.0258	10.0	ng/kg	102		78-144		
2378-TCDF	0.0189 J	0.0133	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0492 J	0.00870	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0795 J	0.00870	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0592 J	0.0101	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0417 J	0.00940	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0964 J	0.0126	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0597 J	0.0103	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.145 J	0.00850	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.108 J	0.0127	5.00	ng/kg	103		78-138		
OCDF	0.266 J	0.0247	10.0	ng/kg	103		63-170		
Batch number: 11122001	Sample number(s): 6262865								
2378-TCDD	0.371 J	0.287	2.00	pg/l	98		67-158		
12378-PeCDD	0.428 J	0.422	10.0	pg/l	102		70-142		
123478-HxCDD	0.811 J	0.480	10.0	pg/l	105		70-164		
123678-HxCDD	0.674 J	0.494	10.0	pg/l	106		76-134		
123789-HxCDD	1.07 J	0.479	10.0	pg/l	102		64-162		
1234678-HpCDD	4.37 J	0.749	10.0	pg/l	105		70-140		
OCDD	7.09 J	0.667	20.0	pg/l	109		78-144		
2378-TCDF	0.244 U	0.244	2.00	pg/l	99		75-158		
12378-PeCDF	0.992 J	0.184	10.0	pg/l	100		80-134		
23478-PeCDF	0.699 J	0.169	10.0	pg/l	100		68-160		
123478-HxCDF	0.812 J	0.228	10.0	pg/l	100		72-134		
123678-HxCDF	0.817 J	0.220	10.0	pg/l	103		84-130		
123789-HxCDF	0.969 J	0.250	10.0	pg/l	101		78-130		
234678-HxCDF	0.470 J	0.201	10.0	pg/l	100		70-156		
1234678-HpCDF	1.81 J	0.299	10.0	pg/l	106		82-122		
1234789-HpCDF	0.983 J	0.384	10.0	pg/l	108		78-138		
OCDF	2.65 J	0.776	20.0	pg/l	110		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122002	Sample number(s): 6262862								
2378-TCDD	0.0172 U	0.0172	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0291 J	0.0152	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0176 J	0.0135	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0563 J	0.0139	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0395 J	0.0129	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.160 J	0.0232	5.00	ng/kg	100		70-140		
OCDD	0.283 J	0.0219	10.0	ng/kg	100		78-144		
2378-TCDF	0.0138 J	0.0129	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0402 J	0.00770	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0477 J	0.00730	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0299 J	0.00990	5.00	ng/kg	100		72-134		
123678-HxCDF	0.00940 U	0.00940	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0587 J	0.0100	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0330 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.0552 J	0.00880	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.0327 J	0.0126	5.00	ng/kg	101		78-138		
OCDF	0.0855 J	0.0225	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11119162401A	Sample number(s): 6262862-6262864					BKG: P262838			
Moisture Content by 160.3						14.0	14.0	0	20
Batch number: 11124162401B	Sample number(s): 6262856-6262861					BKG: P262830			
Moisture Content by 160.3						8.2	8.3	1	20
Batch number: 11117001	Sample number(s): 6262856-6262861,6262863-6262864					UNSPK: 6262856			
2378-TCDD	98	96	67-158	3	25				
12378-PeCDD	104	102	70-142	2	25				
123478-HxCDD	105	106	70-164	0	25				
123678-HxCDD	104	104	76-134	1	25				
123789-HxCDD	103	102	64-162	2	25				
1234678-HpCDD	103	102	70-140	2	25				
OCDD	103	105	78-144	0	25				
2378-TCDF	107	109	75-158	1	25				
12378-PeCDF	102	103	80-134	0	25				
23478-PeCDF	104	103	68-160	2	25				
123478-HxCDF	104	104	72-134	1	25				
123678-HxCDF	104	103	84-130	1	25				
123789-HxCDF	103	103	78-130	1	25				
234678-HxCDF	105	105	70-156	1	25				
1234678-HpCDF	104	104	82-122	1	25				
1234789-HpCDF	105	105	78-138	0	25				
OCDF	105	105	63-170	1	25				
Batch number: 11122002	Sample number(s): 6262862					UNSPK: P259080			
2378-TCDD	99	99	67-158	1	25				
12378-PeCDD	101	103	70-142	3	25				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123478-HxCDD	101	104	70-164	4	25				
123678-HxCDD	102	102	76-134	2	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	101	130	70-140	20	25				
OCDD	127	314*	78-144	44*	25				
2378-TCDF	107	99	75-158	3	25				
12378-PeCDF	101	101	80-134	1	25				
23478-PeCDF	102	99	68-160	2	25				
123478-HxCDF	103	101	72-134	1	25				
123678-HxCDF	100	102	84-130	3	25				
123789-HxCDF	102	100	78-130	1	25				
234678-HxCDF	102	103	70-156	2	25				
1234678-HpCDF	105	105	82-122	1	25				
1234789-HpCDF	103	102	78-138	0	25				
OCDF	105	108	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262856	72	76	72	77	76	67
6262857	73	71	71	76	71	66
6262858	80	79	79	85	80	72
6262859	77	75	76	82	76	66
6262860	76	77	74	80	76	67
6262861	91	89	76	85	90	78
6262863	71	74	61	69	78	70
6262864	74	71	62	68	75	68
Blank	66	64	69	75	69	63
MS	73	71	71	76	71	66
MSD	80	79	79	85	80	72
OPR	64	66	70	77	73	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262856	84	62	57	83	82	79
6262857	85	61	57	84	76	77
6262858	93	67	62	93	84	84
6262859	85	59	49	88	81	81
6262860	85	57	48	88	81	80
6262861	99	71	63	106	97	95
6262863	78	65	57	88	78	83

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Surrogate Quality Control

6262864	74	63	58	86	76	77
Blank	83	62	60	88	69	74
MS	85	61	57	84	76	77
MSD	93	67	62	93	84	84
OPR	86	63	59	88	73	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262856	77	77	72	66	68	77
6262857	74	77	72	66	66	75
6262858	85	86	79	71	74	83
6262859	80	80	73	65	72	79
6262860	81	80	74	66	71	80
6262861	95	96	91	82	83	95
6262863	78	81	77	71	67	77
6262864	79	79	73	68	69	76
Blank	75	74	73	69	59	68
MS	74	77	72	66	66	75
MSD	85	86	79	71	74	83
OPR	78	79	75	70	59	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262865	52	43	44	45	46	44
Blank	71	61	63	65	67	65
OPR	79	67	76	77	75	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262865	38	35	26	73	43	45
Blank	56	52	40	93	60	64
OPR	65	58	46	88	67	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262865	45	45	38	28	52	44
Blank	64	65	55	42	73	61
OPR	74	75	63	49	79	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6262862	66	64	62	67	67	63

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1242947
Reported: 05/10/11 at 10:13 PM

Surrogate Quality Control

Blank	62	62	62	65	67	67
MS	81	79	81	85	83	81
MSD	72	69	66	67	75	74
OPR	68	67	70	75	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6262862	74	62	60	76	68	74
Blank	71	61	58	73	65	70
MS	90	79	76	86	82	89
MSD	73	67	65	74	71	81
OPR	82	67	64	81	71	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6262862	75	74	71	69	62	71
Blank	71	72	71	69	58	63
MS	88	87	86	84	79	88
MSD	81	81	76	77	70	77
OPR	76	78	76	74	63	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

occt#13013 Gp#1242947 Sample# 62628556-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which filtrates were collected						*Metals EPA 6010B/6020B/7471A	*Rhenium EPA 3050	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxins/Furans EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 9056 (10%)	*TPH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*N-NDMA EPA 1625C	*Energetics EPA 8330A	*Cyanide EPA 9012B	*Toxaphene EPA 8081B	*Glycols EPA 8015B	*Alcohols EPA 8015B	
Samplers Signature: Stephen J Brit																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-075-SA8N-SS-0.0-0.5	04.19.11	0845	SOIL	NONE	1 SS sleeve			X	X															
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-076-SA8N-SS-0.0-0.5	04.19.11	1405	SOIL	NONE	1 SS sleeve			X	X															
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-077-SA8N-SS-0.0-0.5	04.19.11	1030	SOIL	NONE	1 SS sleeve			X	X															
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-092-SA8N-SS-0.0-0.5	04.19.11	1335	SOIL	NONE	1 SS sleeve			X	X															
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-093-SA8N-SS-0.0-0.5	04.19.11	1355	SOIL	NONE	1 SS sleeve			X	X															
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-094-SA8N-SS-0.0-0.5	04.19.11	1515	SOIL	NONE	1 SS sleeve			X	X															
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-095-SA8N-SS-0.0-0.5	04.19.11	1500	SOIL	NONE	1 SS sleeve			X	X															
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-096-SA8N-SS-0.0-0.5	04.19.11	1525	SOIL	NONE	1 SS sleeve			X	X															
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X											
SL-097-SA8N-SS-0.0-0.5	04.19.11	1540	SOIL	NONE	1 SS sleeve			X	X															
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-122-SA8N-SS-0.0-0.5	04.19.11	1315	SOIL	NONE	1 SS sleeve			X	X															
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-135-SA8N-SS-0.0-0.5	04.19.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	MS/MSD
SL-138-SA8N-SS-0.0-0.5MS	04.19.11	1100	SOIL	NONE	2 SS sleeve			X	X															MS/MSD
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-139-SA8N-SS-0.0-0.5	04.19.11	1125	SOIL	NONE	1 SS sleeve			X	X															
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-140-SA8N-SS-0.0-0.5	04.19.11	0945	SOIL	NONE	1 SS sleeve			X	X															
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
DUP04-SA8N-041911	04.19.11	1105	SOIL	NONE	1 SS sleeve			X	X															

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	04/19/2011 / 1700	Yong Hubard 4/20/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s): 8700 5952 3000, 2996	

→ DUP04-SA8N-QC-041911 per PB. NLM 5/6/11

acct#13013 Qp# 1242947 Sample# 62628556-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesh/Furan EPA 16138	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Pensketonate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TRH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-171-SA5A-SB-2.5	04.19.11	0940	SOIL	NONE	4-Encores										X	X											
SL-171-SA5A-SB-2.0-3.0	04.19.11	0942	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-126-SA5A-SB-4.5	04.19.11	1225	SOIL	NONE	4-Encores										X	X											
SL-126-SA5A-SB-4.-5.0	04.19.11	1227	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-127-SA5A-SB-2.5	04.19.11	1115	SOIL	NONE	4-Encores										X	X											
SL-127-SA5A-SB-2.0-3.0	04.19.11	1117	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
TB-041911	04.19.11	0800	WATER	NONE	3-40 mL vials										X	X											TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/19/2011 / 1700		Received for Laboratory by: (Signature) 4/20/11 915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8700 5932 2974																								

acct#13013 Gp#1242947 sample#62628856-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which 5 liners were collected

Samplers Signature: Steve Blute

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	Chloride/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TRH-EPH EPA 8015B Mod.	*Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Dyestds EPA 8012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	7-1 liter ambers			X	X	X																
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-500 mL poly		X				X	X	X													
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HNO3	1-500 mL poly	X																				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	5-1 liter ambers												X			X	X		X			
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NaOH	1-500 mL glass																	X				
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	1-250 mL glass														X							
EB06-SA8N-SS-041911	04.19.11	1200	WATER	HCl	2-40 mL vials																				X	
EB06-SA8N-SS-041911	04.19.11	1200	WATER	NONE	4-40 mL vials													X						X		

Relinquished by: (Signature) — Date/Time: 04/19/2011 / 1700 — Received for Laboratory by: (Signature) Mary Hallock 4/20/11 915

Received by: (Signature) — Date/Time — AirBill No.(s): 8700 5932 2985,2996

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec A#13013 Grp#1242947 Sample#G26285G-65

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, May 04, 2011 3:42 PM
To: Nicole Maljovec
Subject: RE: Revision to COC dated 4.19.2011

I thought I had replied to this. You are correct it should be 041911 and not 041011 (that was a typo!).

P

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Wednesday, May 04, 2011 12:28 PM
To: Bloisa, Peggy
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
Did you have a chance to check on this one?

Thanks!
Nicole

From: Nicole Maljovec
Sent: Monday, May 02, 2011 11:58 AM
To: 'Bloisa, Peggy'
Subject: RE: Revision to COC dated 4.19.2011

Hi Peggy,
I was reviewing this change today and noticed the date. Did you mean DUP04-SA8N-QC-041911?

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, April 22, 2011 5:09 PM
To: Nicole Maljovec; Hartman, Pamela
Cc: Zakowski, Cherie; Burgesser, Todd
Subject: Revision to COC dated 4.19.2011

Hi Nicole – would you please make the following change to surface soil sample DUP04-SA8N-041911? The sample number should read as DUP04-SA8N-QC-041011.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/26/2011
Group Number: 1243765
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-036-SA8N-SB-4.0-5.0 Soil	6268208
SL-036-SA8N-SB-9.0-10.0 Soil	6268209

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

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Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0560 JBQ	0.0189	1.17	1
11031	12378-PeCDD	40321-76-4	0.111 JBQ	0.0205	5.85	1
11031	123478-HxCDD	39227-28-6	0.0454 JBQ	0.0181	5.85	1
11031	123678-HxCDD	57653-85-7	0.123 JB	0.0185	5.85	1
11031	123789-HxCDD	19408-74-3	0.249 JB	0.0176	5.85	1
11031	1234678-HpCDD	35822-46-9	0.289 JB	0.0234	5.85	1
11031	OCDD	3268-87-9	1.25 JB	0.0368	11.7	1
11031	2378-TCDF	51207-31-9	0.0147 U	0.0147	1.17	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.0101	5.85	1
11031	23478-PeCDF	57117-31-4	0.124 JB	0.00953	5.85	1
11031	123478-HxCDF	70648-26-9	0.0718 JBQ	0.0133	5.85	1
11031	123678-HxCDF	57117-44-9	0.0796 JB	0.0122	5.85	1
11031	123789-HxCDF	72918-21-9	0.297 JB	0.0153	5.85	1
11031	234678-HxCDF	60851-34-5	0.0532 JB	0.0124	5.85	1
11031	1234678-HpCDF	67562-39-4	0.142 JB	0.0146	5.85	1
11031	1234789-HpCDF	55673-89-7	0.0604 JBQ	0.0221	5.85	1
11031	OCDF	39001-02-0	0.172 JBQ	0.0286	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-4.0-5.0

LLI Sample # SW 6268208
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:14

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0364 SDG#: DX073-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 02:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0178 U	0.0178	1.22	1
11031	12378-PeCDD	40321-76-4	0.0621 JBQ	0.0158	6.10	1
11031	123478-HxCDD	39227-28-6	0.0198 JB	0.0139	6.10	1
11031	123678-HxCDD	57653-85-7	0.0288 JBQ	0.0140	6.10	1
11031	123789-HxCDD	19408-74-3	0.0335 JBQ	0.0134	6.10	1
11031	1234678-HpCDD	35822-46-9	0.291 JB	0.0271	6.10	1
11031	OCDD	3268-87-9	1.41 JB	0.0334	12.2	1
11031	2378-TCDF	51207-31-9	0.0157 U	0.0157	1.22	1
11031	12378-PeCDF	57117-41-6	0.0641 JBQ	0.00807	6.10	1
11031	23478-PeCDF	57117-31-4	0.0759 JB	0.00807	6.10	1
11031	123478-HxCDF	70648-26-9	0.0326 JBQ	0.00894	6.10	1
11031	123678-HxCDF	57117-44-9	0.0457 JB	0.00807	6.10	1
11031	123789-HxCDF	72918-21-9	0.0288 JB	0.0108	6.10	1
11031	234678-HxCDF	60851-34-5	0.0336 JBQ	0.00845	6.10	1
11031	1234678-HpCDF	67562-39-4	0.0910 JB	0.00969	6.10	1
11031	1234789-HpCDF	55673-89-7	0.0222 JBQ	0.0173	6.10	1
11031	OCDF	39001-02-0	0.194 JB	0.0297	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	53	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-036-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA8N-SB-9.0-10.0

LLI Sample # SW 6268209
LLI Group # 1243765
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/25/2011 11:18

Submitted: 04/26/2011 08:50
Reported: 05/09/2011 08:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0369 SDG#: DX073-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11117001	04/30/2011 03:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11117001	04/27/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6268208-6268209								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11117001	Sample number(s): 6268208-6268209								
2378-TCDD	0.0430 J	0.0175	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0524 J	0.0149	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0460 J	0.0135	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0426 J	0.0142	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0546 J	0.0135	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.222 J	0.0201	5.00	ng/kg	102		70-140		
OCDD	0.573 J	0.0258	10.0	ng/kg	102		78-144		
2378-TCDF	0.0189 J	0.0133	1.00	ng/kg	110		75-158		
12378-PeCDF	0.0492 J	0.00870	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0795 J	0.00870	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0592 J	0.0101	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0417 J	0.00940	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0964 J	0.0126	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0597 J	0.0103	5.00	ng/kg	104		70-156		
1234678-HpCDF	0.145 J	0.00850	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.108 J	0.0127	5.00	ng/kg	103		78-138		
OCDF	0.266 J	0.0247	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6268208-6268209 BKG: P268204								
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11117001	Sample number(s): 6268208-6268209 UNSPK: P262856								
2378-TCDD	98	96	67-158	3	25				
12378-PeCDD	104	102	70-142	2	25				
123478-HxCDD	105	106	70-164	0	25				
123678-HxCDD	104	104	76-134	1	25				
123789-HxCDD	103	102	64-162	2	25				
1234678-HpCDD	103	102	70-140	2	25				
OCDD	103	105	78-144	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	107	109	75-158	1	25				
12378-PeCDF	102	103	80-134	0	25				
23478-PeCDF	104	103	68-160	2	25				
123478-HxCDF	104	104	72-134	1	25				
123678-HxCDF	104	103	84-130	1	25				
123789-HxCDF	103	103	78-130	1	25				
234678-HxCDF	105	105	70-156	1	25				
1234678-HpCDF	104	104	82-122	1	25				
1234789-HpCDF	105	105	78-138	0	25				
OCDF	105	105	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6268208	60	62	65	68	65	60
6268209	53	58	60	66	62	56
Blank	66	64	69	75	69	63
MS	73	71	71	76	71	66
MSD	80	79	79	85	80	72
OPR	64	66	70	77	73	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6268208	74	55	49	81	66	69
6268209	74	50	42	81	62	66
Blank	83	62	60	88	69	74
MS	85	61	57	84	76	77
MSD	93	67	62	93	84	84
OPR	86	63	59	88	73	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6268208	68	70	65	60	55	63
6268209	68	68	64	57	49	59
Blank	75	74	73	69	59	68
MS	74	77	72	66	66	75
MSD	85	86	79	71	74	83
OPR	78	79	75	70	59	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1243765
Reported: 05/09/11 at 08:43 AM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1243765 6268208-09

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Pam																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-036-SA8N-SB-4.5	04.25.11	1111	SOIL	NONE	~~4 Encores~~ 5 Encores										X	X	X										
SL-036-SA8N-SB-4.0-5.0	04.25.11	1114	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.0-10.0	04.25.11	1118	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-036-SA8N-SB-9.5	04.25.11	1125	SOIL	NONE	1-Encore												X										
TB-042511	04.25.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 04/25/2011 / 1700		Received for Laboratory by: (Signature) Gary Yarlett 4/26/11 850																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No(s) 8695 1441 6472																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/27/2011
Group Number: 1244037
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-027-SA8N-SB-4.0-5.0 Soil	6269641
SL-027-SA8N-SB-9.0-10.0 Soil	6269642
SL-028-SA8N-SB-4.0-5.0 Soil	6269643
SL-028-SA8N-SB-9.0-10.0 Soil	6269644

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0252 JBQ	0.0152	1.15	1
11031	12378-PeCDD	40321-76-4	0.0774 JBQ	0.0151	5.74	1
11031	123478-HxCDD	39227-28-6	0.0454 JB	0.0134	5.74	1
11031	123678-HxCDD	57653-85-7	0.0482 JBQ	0.0141	5.74	1
11031	123789-HxCDD	19408-74-3	0.0734 JBQ	0.0131	5.74	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0178	5.74	1
11031	OCDD	3268-87-9	0.657 JB	0.0256	11.5	1
11031	2378-TCDF	51207-31-9	0.0119 U	0.0119	1.15	1
11031	12378-PeCDF	57117-41-6	0.0788 JB	0.00776	5.74	1
11031	23478-PeCDF	57117-31-4	0.0982 JBQ	0.00765	5.74	1
11031	123478-HxCDF	70648-26-9	0.0712 JB	0.0116	5.74	1
11031	123678-HxCDF	57117-44-9	0.0640 JB	0.0107	5.74	1
11031	123789-HxCDF	72918-21-9	0.132 JBQ	0.0121	5.74	1
11031	234678-HxCDF	60851-34-5	0.0731 JBQ	0.0109	5.74	1
11031	1234678-HpCDF	67562-39-4	0.0976 JB	0.00962	5.74	1
11031	1234789-HpCDF	55673-89-7	0.128 JBQ	0.0146	5.74	1
11031	OCDF	39001-02-0	0.219 JBQ	0.0212	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-4.0-5.0

LLI Sample # SW 6269641
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 10:54

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7311 SDG#: DX073-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 11:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.14	1
11031	12378-PeCDD	40321-76-4	0.0567 JB	0.0145	5.69	1
11031	123478-HxCDD	39227-28-6	0.0324 JBQ	0.0155	5.69	1
11031	123678-HxCDD	57653-85-7	0.0515 JB	0.0155	5.69	1
11031	123789-HxCDD	19408-74-3	0.0566 JB	0.0153	5.69	1
11031	1234678-HpCDD	35822-46-9	1.27 JB	0.0371	5.69	1
11031	OCDD	3268-87-9	16.2 B	0.0257	11.4	1
11031	2378-TCDF	51207-31-9	0.0188 J	0.0122	1.14	1
11031	12378-PeCDF	57117-41-6	0.0589 JB	0.00731	5.69	1
11031	23478-PeCDF	57117-31-4	0.0655 JBQ	0.00766	5.69	1
11031	123478-HxCDF	70648-26-9	0.0563 JBQ	0.00949	5.69	1
11031	123678-HxCDF	57117-44-9	0.0373 JB	0.00800	5.69	1
11031	123789-HxCDF	72918-21-9	0.0479 JB	0.00983	5.69	1
11031	234678-HxCDF	60851-34-5	0.0336 JBQ	0.00857	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0938 JBQ	0.0136	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0526 JBQ	0.0219	5.69	1
11031	OCDF	39001-02-0	0.257 JBQ	0.0360	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA8N-SB-9.0-10.0

LLI Sample # SW 6269642
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 11:01

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7312 SDG#: DX073-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 12:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0151 U	0.0151	1.16	1
11031	12378-PeCDD	40321-76-4	0.0693 JB	0.0151	5.80	1
11031	123478-HxCDD	39227-28-6	0.0362 JBQ	0.0124	5.80	1
11031	123678-HxCDD	57653-85-7	0.0524 JB	0.0128	5.80	1
11031	123789-HxCDD	19408-74-3	0.0474 JB	0.0122	5.80	1
11031	1234678-HpCDD	35822-46-9	0.215 JB	0.0169	5.80	1
11031	OCDD	3268-87-9	0.571 JB	0.0275	11.6	1
11031	2378-TCDF	51207-31-9	0.0203 JQ	0.0124	1.16	1
11031	12378-PeCDF	57117-41-6	0.0783 JBQ	0.00694	5.80	1
11031	23478-PeCDF	57117-31-4	0.105 JBQ	0.00694	5.80	1
11031	123478-HxCDF	70648-26-9	0.0471 JB	0.00859	5.80	1
11031	123678-HxCDF	57117-44-9	0.0532 JB	0.00765	5.80	1
11031	123789-HxCDF	72918-21-9	0.0516 JB	0.00894	5.80	1
11031	234678-HxCDF	60851-34-5	0.0549 JB	0.00788	5.80	1
11031	1234678-HpCDF	67562-39-4	0.0681 JB	0.00776	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0545 JBQ	0.0124	5.80	1
11031	OCDF	39001-02-0	0.115 JBQ	0.0279	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-4.0-5.0

LLI Sample # SW 6269643
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:19

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7313 SDG#: DX073-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 13:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0159 JBQ	0.0152	1.10	1
11031	12378-PeCDD	40321-76-4	0.0485 JBQ	0.0152	5.51	1
11031	123478-HxCDD	39227-28-6	0.0223 JBQ	0.0131	5.51	1
11031	123678-HxCDD	57653-85-7	0.0213 JBQ	0.0135	5.51	1
11031	123789-HxCDD	19408-74-3	0.0428 JB	0.0133	5.51	1
11031	1234678-HpCDD	35822-46-9	0.259 JBQ	0.0195	5.51	1
11031	OCDD	3268-87-9	1.31 JB	0.0310	11.0	1
11031	2378-TCDF	51207-31-9	0.0244 J	0.0154	1.10	1
11031	12378-PeCDF	57117-41-6	0.0599 JBQ	0.00701	5.51	1
11031	23478-PeCDF	57117-31-4	0.0817 JB	0.00723	5.51	1
11031	123478-HxCDF	70648-26-9	0.0435 JBQ	0.00801	5.51	1
11031	123678-HxCDF	57117-44-9	0.0249 JBQ	0.00734	5.51	1
11031	123789-HxCDF	72918-21-9	0.0392 JBQ	0.00823	5.51	1
11031	234678-HxCDF	60851-34-5	0.0327 JB	0.00779	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0533 JBQ	0.00779	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0329 JBQ	0.0113	5.51	1
11031	OCDF	39001-02-0	0.121 JB	0.0189	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA8N-SB-9.0-10.0

LLI Sample # SW 6269644
LLI Group # 1244037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/26/2011 12:28

Submitted: 04/27/2011 09:15
Reported: 05/09/2011 23:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X7314 SDG#: DX073-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 14:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6269641-6269644								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122003	Sample number(s): 6269641-6269644								
2378-TCDD	0.0183 J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512 J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242 J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426 J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398 J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173 J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359 J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143 U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563 J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781 J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612 J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458 J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821 J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520 J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881 J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487 J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148 J	0.0212	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6269641-6269644					BKG: P268204			
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11122003	Sample number(s): 6269641-6269644					UNSPK: P259105			
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6269641	72	69	71	76	73	74
6269642	76	73	72	80	75	74
6269643	73	69	70	75	74	71
6269644	74	71	74	80	75	78
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6269641	86	67	62	83	74	79
6269642	89	65	60	83	77	82
6269643	83	60	44	83	73	78
6269644	88	69	63	85	73	80
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6269641	80	80	78	74	68	75
6269642	81	81	78	74	70	80
6269643	78	78	76	69	67	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244037
Reported: 05/09/11 at 11:24 PM

Surrogate Quality Control

6269644	81	80	78	73	68	77
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1244037 Sample# 6269641-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-027-SA8N-SB-4.5	04.26.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA8N-SB-4.0-5.0	04.26.11	1054	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-027-SA8N-SB-9.5	04.26.11	1058	SOIL	NONE	1-Encore												X										
SL-027-SA8N-SB-9.0-10.0	04.26.11	1101	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-4.5	04.26.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA8N-SB-4.0-5.0	04.26.11	1219	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
SL-028-SA8N-SB-9.5	04.26.11	1224	SOIL	NONE	1-Encore												X										
SL-028-SA8N-SB-9.0-10.0	04.26.11	1228	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X									
TB-042611	04.26.11	0800	WATER	NONE	4-40 mL vials										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 04/26/2011 / 1700

Received for Laboratory by: (Signature) Kristi Leigh 4-27-11 0915

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time

Airbill No.(s) 8695 1441 6483 [redacted]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/28/2011
Group Number: 1244256
SDG: DX073
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA8N-SB-4.0-5.0 Soil	6270791
SL-032-SA8N-SB-9.0-10.0 Soil	6270792
FB07-SA8N-QC-042711 Water	6270793

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0213 JBQ	0.0152	1.18	1
11031	12378-PeCDD	40321-76-4	0.110 JB	0.0148	5.91	1
11031	123478-HxCDD	39227-28-6	0.0873 JBQ	0.0214	5.91	1
11031	123678-HxCDD	57653-85-7	0.196 JB	0.0223	5.91	1
11031	123789-HxCDD	19408-74-3	0.114 JBQ	0.0205	5.91	1
11031	1234678-HpCDD	35822-46-9	3.10 JB	0.0399	5.91	1
11031	OCDD	3268-87-9	22.9 B	0.0374	11.8	1
11031	2378-TCDF	51207-31-9	0.0172 JQ	0.0154	1.18	1
11031	12378-PeCDF	57117-41-6	0.101 JB	0.00806	5.91	1
11031	23478-PeCDF	57117-31-4	0.111 JB	0.00841	5.91	1
11031	123478-HxCDF	70648-26-9	0.103 JBQ	0.0200	5.91	1
11031	123678-HxCDF	57117-44-9	0.0877 JBQ	0.0171	5.91	1
11031	123789-HxCDF	72918-21-9	0.112 JB	0.0217	5.91	1
11031	234678-HxCDF	60851-34-5	0.102 JB	0.0188	5.91	1
11031	1234678-HpCDF	67562-39-4	0.539 JB	0.0209	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0983 JB	0.0353	5.91	1
11031	OCDF	39001-02-0	1.21 JB	0.0390	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-4.0-5.0

LLI Sample # SW 6270791
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:19

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0324 SDG#: DX073-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 20:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0449	JB	0.0197	1.19	1
11031	12378-PeCDD	40321-76-4	0.217	JBQ	0.0285	5.97	1
11031	123478-HxCDD	39227-28-6	0.149	JB	0.0397	5.97	1
11031	123678-HxCDD	57653-85-7	0.487	JB	0.0418	5.97	1
11031	123789-HxCDD	19408-74-3	0.243	JB	0.0387	5.97	1
11031	1234678-HpCDD	35822-46-9	9.77	B	0.0597	5.97	1
11031	OCDD	3268-87-9	67.8	B	0.0444	11.9	1
11031	2378-TCDF	51207-31-9	0.0386	JQ	0.0199	1.19	1
11031	12378-PeCDF	57117-41-6	0.323	JB	0.0116	5.97	1
11031	23478-PeCDF	57117-31-4	0.265	JB	0.0125	5.97	1
11031	123478-HxCDF	70648-26-9	0.161	JB	0.0384	5.97	1
11031	123678-HxCDF	57117-44-9	0.185	JB	0.0345	5.97	1
11031	123789-HxCDF	72918-21-9	0.142	JB	0.0418	5.97	1
11031	234678-HxCDF	60851-34-5	0.172	JBQ	0.0361	5.97	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0252	5.97	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0357	5.97	1
11031	OCDF	39001-02-0	3.30	JB	0.0353	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA8N-SB-9.0-10.0

LLI Sample # SW 6270792
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 15:26

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0329 SDG#: DX073-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122003	05/05/2011 21:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11122003	05/02/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11123162401B	05/03/2011 20:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270793
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB07 SDG#: DX073-17FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.198	U	0.198	2.13	1
10915	12378-PeCDD	40321-76-4	0.275	U	0.275	10.6	1
10915	123478-HxCDD	39227-28-6	0.242	U	0.242	10.6	1
10915	123678-HxCDD	57653-85-7	0.251	U	0.251	10.6	1
10915	123789-HxCDD	19408-74-3	0.423	JBQ	0.229	10.6	1
10915	1234678-HpCDD	35822-46-9	1.87	JBQ	0.284	10.6	1
10915	OCDD	3268-87-9	4.47	JB	0.435	21.3	1
10915	2378-TCDF	51207-31-9	0.184	U	0.184	2.13	1
10915	12378-PeCDF	57117-41-6	0.217	JBQ	0.134	10.6	1
10915	23478-PeCDF	57117-31-4	0.456	JB	0.127	10.6	1
10915	123478-HxCDF	70648-26-9	0.401	JBQ	0.158	10.6	1
10915	123678-HxCDF	57117-44-9	0.385	JBQ	0.152	10.6	1
10915	123789-HxCDF	72918-21-9	0.145	U	0.145	10.6	1
10915	234678-HxCDF	60851-34-5	0.515	JB	0.130	10.6	1
10915	1234678-HpCDF	67562-39-4	1.25	JB	0.147	10.6	1
10915	1234789-HpCDF	55673-89-7	0.498	JBQ	0.173	10.6	1
10915	OCDF	39001-02-0	1.29	JB	0.335	21.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: FB07-SA8N-QC-042711 Water
SSFL Area IV Collocated Soil Sampling
FB07-SA8N-QC-042711

LLI Sample # WW 6270793
LLI Group # 1244256
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/27/2011 13:30

Submitted: 04/28/2011 09:30
Reported: 05/10/2011 22:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DFB07 SDG#: DX073-17FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11122001	05/04/2011 19:20	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11122001	05/02/2011 08:30	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11123162401B	Sample number(s): 6270791-6270792								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11122001	Sample number(s): 6270793								
2378-TCDD	0.371 J	0.287	2.00	pg/l	98		67-158		
12378-PeCDD	0.428 J	0.422	10.0	pg/l	102		70-142		
123478-HxCDD	0.811 J	0.480	10.0	pg/l	105		70-164		
123678-HxCDD	0.674 J	0.494	10.0	pg/l	106		76-134		
123789-HxCDD	1.07 J	0.479	10.0	pg/l	102		64-162		
1234678-HpCDD	4.37 J	0.749	10.0	pg/l	105		70-140		
OCDD	7.09 J	0.667	20.0	pg/l	109		78-144		
2378-TCDF	0.244 U	0.244	2.00	pg/l	99		75-158		
12378-PeCDF	0.992 J	0.184	10.0	pg/l	100		80-134		
23478-PeCDF	0.699 J	0.169	10.0	pg/l	100		68-160		
123478-HxCDF	0.812 J	0.228	10.0	pg/l	100		72-134		
123678-HxCDF	0.817 J	0.220	10.0	pg/l	103		84-130		
123789-HxCDF	0.969 J	0.250	10.0	pg/l	101		78-130		
234678-HxCDF	0.470 J	0.201	10.0	pg/l	100		70-156		
1234678-HpCDF	1.81 J	0.299	10.0	pg/l	106		82-122		
1234789-HpCDF	0.983 J	0.384	10.0	pg/l	108		78-138		
OCDF	2.65 J	0.776	20.0	pg/l	110		63-170		
Batch number: 11122003	Sample number(s): 6270791-6270792								
2378-TCDD	0.0183 J	0.0119	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0512 J	0.0113	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0242 J	0.0124	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0426 J	0.0129	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0398 J	0.0123	5.00	ng/kg	103		64-162		
1234678-HpCDD	0.173 J	0.0178	5.00	ng/kg	101		70-140		
OCDD	0.359 J	0.0192	10.0	ng/kg	102		78-144		
2378-TCDF	0.0143 U	0.0143	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0563 J	0.00680	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0781 J	0.00650	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0612 J	0.00920	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0458 J	0.00780	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0821 J	0.00970	5.00	ng/kg	102		78-130		
234678-HxCDF	0.0520 J	0.00820	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.0881 J	0.00860	5.00	ng/kg	102		82-122		
1234789-HpCDF	0.0487 J	0.0126	5.00	ng/kg	103		78-138		
OCDF	0.148 J	0.0212	10.0	ng/kg	103		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11123162401B	Sample number(s): 6270791-6270792					BKG: P268204			
Moisture Content by 160.3						15.0	14.9	1	20
Batch number: 11122003	Sample number(s): 6270791-6270792 UNSPK: P259105								
2378-TCDD	98	98	67-158	1	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	103	103	70-164	1	25				
123678-HxCDD	102	102	76-134	1	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	102	100	70-140	1	25				
OCDD	100	97	78-144	3	25				
2378-TCDF	104	105	75-158	2	25				
12378-PeCDF	100	101	80-134	1	25				
23478-PeCDF	101	103	68-160	2	25				
123478-HxCDF	102	103	72-134	0	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	101	78-130	1	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	102	101	82-122	1	25				
1234789-HpCDF	104	102	78-138	2	25				
OCDF	103	101	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6270793	74	65	64	66	72	76
Blank	71	61	63	65	67	65
OPR	79	67	76	77	75	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6270793	60	59	48	86	63	68
Blank	56	52	40	93	60	64
OPR	65	58	46	88	67	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6270793	67	71	63	53	75	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1244256
Reported: 05/10/11 at 10:17 PM

Surrogate Quality Control

Blank	64	65	55	42	73	61
OPR	74	75	63	49	79	70
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11122003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6270791	73	70	70	81	74	71
6270792	71	66	68	74	70	68
Blank	81	80	80	87	85	82
MS	73	74	60	68	80	80
MSD	68	70	72	78	76	71
OPR	72	71	68	73	78	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6270791	92	63	58	82	74	81
6270792	82	67	61	77	70	76
Blank	98	78	75	97	85	93
MS	78	72	71	84	77	85
MSD	85	62	54	81	73	81
OPR	83	69	65	86	74	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6270791	79	81	78	74	67	77
6270792	74	77	75	72	66	73
Blank	92	92	92	90	74	83
MS	86	85	81	79	70	78
MSD	80	80	77	73	65	74
OPR	82	85	81	75	67	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1244256 6270791-93

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP § Moisture by EPA 160.3 will be performed on one 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	*Pesticides EPA 8081A (surface Soil only)	*Herbicides EPA 8151 (surface Soil only)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SAMPLE NUMBER		DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-032-SA8N-SB-4.5		04.27.11	1515	SOIL	NONE	5-Encores														X	X	X							
SL-032-SA8N-SB-4.0-5.0		04.27.11	1519	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X								X							
SL-032-SA8N-SB-9.5		04.27.11	1523	SOIL	NONE	1-Encore																X							
SL-032-SA8N-SB-9.0-10.0		04.27.11	1526	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X									X							
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	12-1L amber bottles			X	X	X					X	X						X		X	X		X		Lot#A032-14
FB07-SA8N-QC-042711		04.27.11	1330	WATER	HCl	11-40mL VOA vials												X	X	X									X	
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	1-500mL poly		X				X	X	X																
FB07-SA8N-QC-042711		04.27.11	1330	WATER	HNO3	1-500mL poly	X																							
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	4-40mL Vials																X						X		
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NONE	1-250mL galss																	X							
FB07-SA8N-QC-042711		04.27.11	1330	WATER	NaOH	1-500mL poly																				X				
TB-042711		04.27.11	0800	WATER	NONE	4-40 mL vials												X	X	X										TRIP BLANK
Relinquished by: (Signature)		Date/Time 04/27/2011 / 1700		Received for Laboratory by: (Signature)																										Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)		Date/Time 4/28/11 0930		Airbill No.(s) 8695 1441 7571, 7582																										

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

August 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/07/2011
Group Number: 1250146
SDG: DE174
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA5DN-SB-4.0-5.0 Soil	6308035
SL-022-SA5DN-SB-15.0-16.0 Soil	6308036
SL-053-SA5DN-SB-4.0-5.0 Soil	6308037
SL-053-SA5DN-SB-11.5-12.5 Soil	6308038
SL-079-SA8N-SB-4.0-5.0 Soil	6308039
SL-079-SA8N-SB-9.0-10.0 Soil	6308040
SL-133-SA8N-SB-4.0-5.0 Soil	6308041
TB-060611 Water	6308042

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

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Analysis Report

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.17	J	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	116		19.0	38.1		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1

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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.78	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,700		5.63	22.4		1
07914	Boron	7440-42-8	19.5		1.02	5.71		1
01650	Calcium	7440-70-2	12,300		7.00	22.8		1
01654	Iron	7439-89-6	37,200		26.9	114		5
01656	Lithium	7439-93-2	30.1		0.25	2.3		1
01657	Magnesium	7439-95-4	8,060		2.90	11.4		1
06958	Manganese	7439-96-5	327		0.0890	0.571		1
10145	Phosphorus	7723-14-0	206		0.639	11.4		1
01662	Potassium	7440-09-7	3,580		20.5	57.1		1
01667	Sodium	7440-23-5	542		42.6	114		1
07968	Strontium	7440-24-6	56.2		0.0708	0.571		1
06969	Tin	7440-31-5	3.09	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,420		0.425	1.12		1
10146	Zirconium	7440-67-7	2.53	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.272		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.06		0.0887	0.443		2
06126	Barium	7440-39-3	177		0.120	0.443		2
06127	Beryllium	7440-41-7	1.02		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.162		0.0443	0.111		2
06131	Chromium	7440-47-3	34.1		0.133	0.443		2
06132	Cobalt	7440-48-4	13.9		0.0222	0.111		2
06133	Copper	7440-50-8	16.8		0.0731	0.443		2
06135	Lead	7439-92-1	10.7		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.498		0.0554	0.111		2
06139	Nickel	7440-02-0	23.3		0.111	0.443		2
06141	Selenium	7782-49-2	0.0978	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0501	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.353		0.0332	0.111		2
06148	Vanadium	7440-62-2	65.2		0.0244	0.111		2
06149	Zinc	7440-66-6	70.7		0.621	3.32		2

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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.2	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.76	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 16:41	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 15:11	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 20:49	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:30	Lois E Hiltz	n.a.

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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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22-45 SDG#: DE174-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 20:46	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 15:31	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 06:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 12:56	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34B	06/08/2011 12:46	Carrie E Miller	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 20:45	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 02:17	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 20:04	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 13:52	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 19:20	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 00:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 10:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 22:16	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 15:05	Dustin A Underkoffler	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:11	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 15:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1

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Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308035
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-45 SDG#: DE174-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:11	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:23	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:23	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 07:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621201A	06/21/2011 07:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 19:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 13:58	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:16	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.17	J	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.93
06192	Methylene Chloride	75-09-2	1.1	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		24.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	53.1		18.0	36.1		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1

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SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1

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22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.34	21.2		1
07914	Boron	7440-42-8	8.97		0.963	5.41		1
01650	Calcium	7440-70-2	5,530		6.63	21.6		1
01654	Iron	7439-89-6	22,500		5.10	21.6		1
01656	Lithium	7439-93-2	35.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,030		2.75	10.8		1
06958	Manganese	7439-96-5	245		0.0844	0.541		1
10145	Phosphorus	7723-14-0	322		0.606	10.8		1
01662	Potassium	7440-09-7	2,800		19.5	54.1		1
01667	Sodium	7440-23-5	197		40.4	108		1
07968	Strontium	7440-24-6	30.0		0.0671	0.541		1
06969	Tin	7440-31-5	2.94	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,450		0.403	1.06		1
10146	Zirconium	7440-67-7	1.31	J	0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0885	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.85		0.0841	0.420		2
06126	Barium	7440-39-3	83.8		0.113	0.420		2
06127	Beryllium	7440-41-7	0.0168	U	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.105	J	0.0420	0.105		2
06131	Chromium	7440-47-3	23.0		0.126	0.420		2
06132	Cobalt	7440-48-4	5.87		0.0210	0.105		2
06133	Copper	7440-50-8	9.94		0.0693	0.420		2
06135	Lead	7439-92-1	4.98		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.404		0.0525	0.105		2
06139	Nickel	7440-02-0	15.3		0.105	0.420		2
06141	Selenium	7782-49-2	0.0420	U	0.0420	0.420		2
06142	Silver	7440-22-4	0.0549	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.262		0.0315	0.105		2
06148	Vanadium	7440-62-2	35.8		0.0231	0.105		2
06149	Zinc	7440-66-6	59.0		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.87	1.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-022-SA5DN-SB-15.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 17:03	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 15:31	Jason M Long	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 20:54	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 20:52	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 15:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 07:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 13:33	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1

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Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34B	06/08/2011 13:22	Carrie E Miller	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 20:51	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 03:00	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 20:13	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 19:39	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 01:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 10:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 23:00	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 15:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111581026004D	06/13/2011 10:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308036
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22-15 SDG#: DE174-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/13/2011 10:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111581026004B	06/13/2011 10:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111581026004A	06/13/2011 10:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 08:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621201A	06/21/2011 08:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 19:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 14:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:19	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

REVISED

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		8.0	9.6		1.02
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.02
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8		1.02
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8		1.02
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.02
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.02
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.02
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6		1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.02
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.02
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.02
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.02
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.02
06192	Chloroform	67-66-3	0.19	J	0.14	4.8		1.02
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8		1.02
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.02
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.02
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8		1.02
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.02
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.02
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.02
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.02
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.02
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.02
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.02
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.02
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.02
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.02
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.02
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0		1.02
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.02
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.02
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6		1.02
06192	Methylene Chloride	75-09-2	1.3	J	0.29	4.8		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.02

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Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8		1.02
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.02
06192	Toluene	108-88-3	0.15	J	0.1	4.8		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8		1.02
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.02
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.02
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.02
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.02
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.94
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		5.89	23.4		1
07914	Boron	7440-42-8	16.9		1.04	5.85		1
01650	Calcium	7440-70-2	18,000		7.18	23.4		1
01654	Iron	7439-89-6	34,600		27.6	117		5
01656	Lithium	7439-93-2	30.3		0.26	2.3		1
01657	Magnesium	7439-95-4	7,540		2.97	11.7		1
06958	Manganese	7439-96-5	242		0.0913	0.585		1
10145	Phosphorus	7723-14-0	179		0.656	11.7		1
01662	Potassium	7440-09-7	3,170		21.1	58.5		1
01667	Sodium	7440-23-5	390		43.7	117		1
07968	Strontium	7440-24-6	61.5		0.0726	0.585		1
06969	Tin	7440-31-5	2.94	J	1.17	11.7		1
06970	Titanium	7440-32-6	901		0.445	1.17		1
10146	Zirconium	7440-67-7	1.98	J	0.984	5.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0703	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.96		0.0937	0.468		2
06126	Barium	7440-39-3	140		0.126	0.468		2
06127	Beryllium	7440-41-7	0.817		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0861	J	0.0468	0.117		2
06131	Chromium	7440-47-3	30.8		0.141	0.468		2

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Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	9.43	0.0234	0.117		2
06133	Copper	7440-50-8	14.2	0.0773	0.468		2
06135	Lead	7439-92-1	10.0	0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.334	0.0585	0.117		2
06139	Nickel	7440-02-0	19.3	0.117	0.468		2
06141	Selenium	7782-49-2	0.0468 U	0.0468	0.468		2
06142	Silver	7440-22-4	0.0428 J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.307	0.0351	0.117		2
06148	Vanadium	7440-62-2	53.4	0.0258	0.117		2
06149	Zinc	7440-66-6	58.9	0.656	3.51		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035 J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	15.9	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-053-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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53-40 SDG#: DE174-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 17:26	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 15:51	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 20:58	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 20:56	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 07:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 19:57	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 15:16	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:35	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:35	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:28	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308037
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-40 SDG#: DE174-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 08:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 20:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 14:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308038
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-11 SDG#: DE174-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308038
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-11 SDG#: DE174-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308038
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-11 SDG#: DE174-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.56	22.1		1
07914	Boron	7440-42-8	11.5		0.983	5.53		1
01650	Calcium	7440-70-2	4,770		6.77	22.1		1
01654	Iron	7439-89-6	27,200		5.20	22.1		1
01656	Lithium	7439-93-2	30.8		0.24	2.2		1
01657	Magnesium	7439-95-4	5,880		2.81	11.1		1
06958	Manganese	7439-96-5	300		0.0862	0.553		1
10145	Phosphorus	7723-14-0	261		0.619	11.1		1
01662	Potassium	7440-09-7	3,220		19.9	55.3		1
01667	Sodium	7440-23-5	266		41.2	111		1
07968	Strontium	7440-24-6	33.5		0.0685	0.553		1
06969	Tin	7440-31-5	2.95	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,430		0.420	1.11		1
10146	Zirconium	7440-67-7	1.80	J	0.928	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.77		0.0884	0.442		2
06126	Barium	7440-39-3	90.3		0.119	0.442		2
06127	Beryllium	7440-41-7	0.735		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.0887	J	0.0442	0.111		2
06131	Chromium	7440-47-3	24.7		0.133	0.442		2
06132	Cobalt	7440-48-4	5.56		0.0221	0.111		2
06133	Copper	7440-50-8	14.0		0.0729	0.442		2
06135	Lead	7439-92-1	9.71		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.294		0.0553	0.111		2
06139	Nickel	7440-02-0	17.1		0.111	0.442		2
06141	Selenium	7782-49-2	0.0697	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0286	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.287		0.0332	0.111		2
06148	Vanadium	7440-62-2	47.1		0.0243	0.111		2
06149	Zinc	7440-66-6	58.5		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308038
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-11 SDG#: DE174-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 08:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 14:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 20:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308038
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53-11 SDG#: DE174-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:38	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:38	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 08:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 20:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 14:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

REVISED

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0		6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.16	J	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	0.99	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.22	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	37.9	J	19.1	38.3		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
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Collected: 06/06/2011 12:05

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79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1

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SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

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79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	0.85	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.0		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.66	22.5		1
07914	Boron	7440-42-8	12.3		1.01	5.68		1
01650	Calcium	7440-70-2	3,190		6.97	22.7		1
01654	Iron	7439-89-6	27,700		5.35	22.7		1
01656	Lithium	7439-93-2	27.1		0.25	2.3		1
01657	Magnesium	7439-95-4	5,170		2.89	11.4		1
06958	Manganese	7439-96-5	628		0.0887	0.568		1
10145	Phosphorus	7723-14-0	209		0.637	11.4		1
01662	Potassium	7440-09-7	2,580		20.5	56.8		1
01667	Sodium	7440-23-5	199		42.4	114		1
07968	Strontium	7440-24-6	31.1		0.0705	0.568		1
06969	Tin	7440-31-5	3.00	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,380		0.428	1.13		1
10146	Zirconium	7440-67-7	2.88	J	0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.33		0.0900	0.450		2
06126	Barium	7440-39-3	127		0.122	0.450		2
06127	Beryllium	7440-41-7	0.871		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0801	J	0.0450	0.113		2
06131	Chromium	7440-47-3	21.1		0.135	0.450		2
06132	Cobalt	7440-48-4	16.4		0.0225	0.113		2
06133	Copper	7440-50-8	9.96		0.0743	0.450		2
06135	Lead	7439-92-1	8.14		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.547		0.0563	0.113		2
06139	Nickel	7440-02-0	16.0		0.113	0.450		2
06141	Selenium	7782-49-2	0.0560	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0579	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.335		0.0338	0.113		2
06148	Vanadium	7440-62-2	44.9		0.0248	0.113		2
06149	Zinc	7440-66-6	57.0		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.92	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-079-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 17:48	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 16:11	Jason M Long	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 21:01	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 16:08	Timothy J Trees	1

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

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Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 08:34	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 15:17	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34B	06/08/2011 13:58	Carrie E Miller	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:00	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 03:42	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 20:23	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 08:44	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 01:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 10:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 23:45	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 15:54	Dustin A Underkoffler	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:35	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:32	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:41	David K Beck	2

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Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308039
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-40 SDG#: DE174-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:41	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:41	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 09:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621201A	06/21/2011 09:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 21:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 14:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:21	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		7.3	8.7		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.92
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.92
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3		0.92
06192	Chloroform	67-66-3	0.19	J	0.13	4.3		0.92
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.92
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.92
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.92
06192	Methylene Chloride	75-09-2	24		0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.92

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.92
06192	Toluene	108-88-3	0.40	J	0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	52.8		19.6	39.1		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.7
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	1.7		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	4.2		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.79	23.0		1
07914	Boron	7440-42-8	12.8		1.01	5.70		1
01650	Calcium	7440-70-2	3,660		6.99	22.8		1
01654	Iron	7439-89-6	28,100		5.37	22.8		1
01656	Lithium	7439-93-2	16.9		0.25	2.3		1
01657	Magnesium	7439-95-4	4,330		2.89	11.4		1
06958	Manganese	7439-96-5	175		0.0889	0.570		1
10145	Phosphorus	7723-14-0	161		0.638	11.4		1
01662	Potassium	7440-09-7	2,140		20.5	57.0		1
01667	Sodium	7440-23-5	183		42.5	114		1
07968	Strontium	7440-24-6	32.6		0.0707	0.570		1
06969	Tin	7440-31-5	3.06	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,210		0.437	1.15		1
10146	Zirconium	7440-67-7	2.62	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.95		0.0921	0.460		2
06126	Barium	7440-39-3	78.4		0.124	0.460		2
06127	Beryllium	7440-41-7	0.673		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0460	U	0.0460	0.115		2
06131	Chromium	7440-47-3	21.7		0.138	0.460		2
06132	Cobalt	7440-48-4	4.23		0.0230	0.115		2
06133	Copper	7440-50-8	8.46		0.0759	0.460		2
06135	Lead	7439-92-1	6.41		0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.311		0.0575	0.115		2
06139	Nickel	7440-02-0	9.31		0.115	0.460		2
06141	Selenium	7782-49-2	0.0621	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0280	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.193		0.0345	0.115		2
06148	Vanadium	7440-62-2	42.5		0.0253	0.115		2
06149	Zinc	7440-66-6	41.7		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.94	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-079-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 18:11	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 16:31	Jason M Long	20.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:08	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 21:06	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 16:26	Timothy J Trees	1

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 08:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 15:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34B	06/08/2011 14:34	Carrie E Miller	20.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:05	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 04:25	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 20:32	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 20:34	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 01:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 00:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 16:19	Dustin A Underkoffler	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:39	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:44	David K Beck	2

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Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308040
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79-90 SDG#: DE174-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:44	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:44	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:44	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 09:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621201A	06/21/2011 09:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 21:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 14:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:22	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

REVISED

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5		6.9	8.3		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.88
06192	Chloroform	67-66-3	0.16	J	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.88
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.88
06192	Toluene	108-88-3	0.17	J	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.54
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	61.8		19.6	39.3		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1

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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1

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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.77
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	1.9	J	0.39	2.0		1
10225	PCB-1254	11097-69-1	2.0	J	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1

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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.80	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,100		5.75	22.9		1
07914	Boron	7440-42-8	20.2		1.01	5.66		1
01650	Calcium	7440-70-2	10,200		6.94	22.7		1
01654	Iron	7439-89-6	35,900		26.7	113		5
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	8,130		2.88	11.3		1
06958	Manganese	7439-96-5	685		0.0883	0.566		1
10145	Phosphorus	7723-14-0	277		0.634	11.3		1
01662	Potassium	7440-09-7	2,780		20.4	56.6		1
01667	Sodium	7440-23-5	201		42.2	113		1
07968	Strontium	7440-24-6	41.5		0.0702	0.566		1
06969	Tin	7440-31-5	3.09	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,560		0.435	1.14		1
10146	Zirconium	7440-67-7	4.96	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.209	J	0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.77		0.0933	0.466		2
06126	Barium	7440-39-3	142		0.126	0.466		2
06127	Beryllium	7440-41-7	0.835		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.106	J	0.0466	0.117		2
06131	Chromium	7440-47-3	32.9		0.140	0.466		2
06132	Cobalt	7440-48-4	9.09		0.0233	0.117		2
06133	Copper	7440-50-8	15.4		0.0770	0.466		2
06135	Lead	7439-92-1	9.15		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.261		0.0583	0.117		2
06139	Nickel	7440-02-0	22.6		0.117	0.466		2
06141	Selenium	7782-49-2	0.0498	J	0.0466	0.466		2
06142	Silver	7440-22-4	0.0337	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.281		0.0350	0.117		2
06148	Vanadium	7440-62-2	63.7		0.0257	0.117		2
06149	Zinc	7440-66-6	67.1		0.653	3.50		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0032	0.111		1

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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.94	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.28		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 18:33	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 16:51	Jason M Long	23.54
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115824604	06/07/2011 21:31	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115824604	06/07/2011 21:11	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 16:45	Timothy J Trees	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 01:26	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 16:29	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34B	06/08/2011 15:11	Carrie E Miller	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115824604	06/07/2011 21:10	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 05:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 20:52	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 20:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 01:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 01:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 16:44	Dustin A Underkoffler	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 15:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 15:44	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 07:29	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:47	David K Beck	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308041
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

133-3 SDG#: DE174-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:47	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:47	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621201A	06/21/2011 10:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621201A	06/21/2011 10:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 21:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 15:13	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:23	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621201A	06/20/2011 06:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-060611 Water
SSFL Area IV Collocated Soil Sampling
TB-060611

LLI Sample # WW 6308042
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 14:30

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB66- SDG#: DE174-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-060611 Water
SSFL Area IV Collocated Soil Sampling
TB-060611

LLI Sample # WW 6308042
LLI Group # 1250146
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 14:30

Submitted: 06/07/2011 10:15
Reported: 08/30/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB66- SDG#: DE174-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111582AA	06/08/2011	00:09	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011	09:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111582AA	06/08/2011	00:09	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111601AA	06/09/2011	09:54	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11165A20A	06/14/2011	22:25	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11165A20A	06/14/2011	22:25	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111591AA	Sample number(s): 6308035-6308037,6308039-6308041									
Acetone	8.7		6.7	8.0	ug/kg	108	105	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	107	105	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	98	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	108	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	97	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	78	80	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	99	46-153	7	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	102	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	102	101	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	98	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	106	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	104	101	80-120	3	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	70	72	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93	91	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	108	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	87	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	98	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	61	55	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	106	105	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100	99	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	101	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	102	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100	99	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	99	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80	79	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	106	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113	110	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114	112	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	104	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	98	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108	108	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	104	77-120	2	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	98	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	96	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	111	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	102	94	78-120	9	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94	94	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	104	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	105	105	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	102	101	75-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104	102	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	104	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	112	112	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	106	102	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	105	102	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	102	102	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	96	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105	103	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	97	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	92	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	107	105	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	100	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103	101	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99	96	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	100	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	100	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	102	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	85	86	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	106	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
Batch number: E111601AA	Sample number(s): 6308042									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102		80-123		
Batch number: E111611AA	Sample number(s): 6308035-6308037,6308039-6308041									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	108	70-130	7	30
Batch number: L111582AA	Sample number(s): 6308042									
Acetone	6	U	6.	20	ug/l	119	101	49-234	16	30
Benzene	0.5	U	0.5	5	ug/l	99	98	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	92	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	101	103	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	92	87	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	97	99	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	94	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	96	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	90	94	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	85	86	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	90	97	60-129	7	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	58	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	84	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	95	95	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	91	93	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	85	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	97	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	101	101	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	95	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	94	94	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	96	98	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	88	58-120	5	30
2-Hexanone	3	U	3.	10	ug/l	85	83	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	90	92	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	91	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	98	97	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	89	65-120	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	81	85	67-120	5	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	94	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	100	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	93	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	92	96	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11160SLB026	Sample number(s): 6308035-6308036,6308039-6308041									
N-Nitrosodimethylamine	18.9	J	16.7	33.3	ng/kg	105		70-130		
Batch number: 11160SLF026	Sample number(s): 6308035-6308041									
Aniline	170 U		170.	500	ug/kg	90		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	93		15-121		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	82		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	97		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	81		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	84		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	77*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	74		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	89		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	90		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	90		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	80		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	74		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	80		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	97		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	71		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	88		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	89		51-117		
Phenol	17	U	17.	170	ug/kg	82		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	88		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11167SLI026	Sample number(s): 6308035-6308041									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	88		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	85		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	104		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	85		56-121		
Batch number: 11157A34B	Sample number(s): 6308035-6308036,6308039-6308041									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	83	95	67-119	13	30
Batch number: 11165A20A	Sample number(s): 6308042									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	91	75-135	10	30
Batch number: 111640007A	Sample number(s): 6308035-6308036,6308039-6308041									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	111		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	99		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	81		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	109		80-120		
PETN	800 U		800.	2,400	ug/kg	117		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	110		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
Batch number: 111640006A	Sample number(s): 6308035-6308036,6308039-6308041									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 111590022A	Sample number(s): 6308035									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 111610011A	Sample number(s): 6308035-6308038,6308040-6308041									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	148*	101	36-106	38*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	120		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111650017A	Sample number(s): 6308039									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	105	102	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	100		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111580038A	Sample number(s): 6308035-6308036,6308039-6308041									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111600002A	Sample number(s): 6308035-6308036,6308039-6308041									
Diethylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	114		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Batch number: 111590037A	Sample number(s): 6308035-6308036,6308039-6308041									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111610013A	Sample number(s): 6308035-6308036,6308039-6308041									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.43	J	0.40	1.2	mg/kg	91		69-132		
EFH (C30 - C40)	0.90	J	0.40	1.2	mg/kg	114		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		54-107		
Batch number: 111581026004A	Sample number(s): 6308035-6308041									
Antimony	0.0600	U	0.0600	0.200	mg/kg	132		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	111		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.152	J	0.0660	0.400	mg/kg	96		83-110		
Lead	0.0660	J	0.0104	0.200	mg/kg	98		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	105		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		84-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zinc	0.560 U	0.560	3.00	mg/kg	108		81-112		
Batch number: 111581026004B	Sample number(s): 6308035-6308041								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111581026004C	Sample number(s): 6308035-6308041								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 111581026004D	Sample number(s): 6308035-6308041								
Barium	0.108 U	0.108	0.400	mg/kg	108		81-111		
Batch number: 111585708002	Sample number(s): 6308035-6308041								
Boron	0.890 U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	108		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	105		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.09 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	107		78-110		
Sodium	37.3 U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28 J	1.00	10.0	mg/kg	102		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111585711003	Sample number(s): 6308035-6308041								
Mercury	0.0028 U	0.0028	0.0969	mg/kg	101		88-123		
Batch number: 111595708002	Sample number(s): 6308035-6308041								
Aluminum	5.03 U	5.03	20.0	mg/kg	107		61-110		
Titanium	0.380 U	0.380	1.00	mg/kg	115		80-120		
Batch number: 11160102201A	Sample number(s): 6308035-6308036,6308039-6308041								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11161243202A	Sample number(s): 6308035-6308041								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11166621202B	Sample number(s): 6308035-6308041								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11171621201A	Sample number(s): 6308035-6308041								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11160039401A	Sample number(s): 6308035-6308041								
18a pH by 9045C					100		95-105		
Batch number: 11165162401B	Sample number(s): 6308037-6308038								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162402A	Sample number(s): 6308035-6308036,6308039-6308041								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111601AA	Sample number(s): 6308042 UNSPK: P308916								
1,4-Dioxane	101	118	73-138	16	30				
Batch number: E111611AA	Sample number(s): 6308035-6308037,6308039-6308041 UNSPK: P309733								
1,4-Dioxane	108	99	70-130	2	30				
Batch number: 11160SLB026	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P305964								
N-Nitrosodimethylamine	83	93	70-130	11	30				
Batch number: 11160SLF026	Sample number(s): 6308035-6308041 UNSPK: P309733								
Aniline	47	47	35-95	1	30				
Benzidine	18*	22*	35-141	17	30				
Benzoic acid	54	40	10-173	30	30				
Benzyl alcohol	73	74	67-115	0	30				
4-Bromophenyl-phenylether	66*	70	67-129	5	30				
Carbazole	70	73	64-120	3	30				
4-Chloro-3-methylphenol	73*	74*	76-110	1	30				
4-Chloroaniline	48	54	23-95	11	30				
bis(2-Chloroethoxy)methane	65*	67*	75-104	2	30				
bis(2-Chloroethyl)ether	63	62	60-116	3	30				
bis(2-Chloroisopropyl)ether	61	58	55-142	7	30				
2-Chloronaphthalene	64	66	50-141	1	30				
2-Chlorophenol	74	71*	73-121	5	30				
4-Chlorophenyl-phenylether	67*	69*	80-109	2	30				
Dibenzofuran	70*	72	71-112	2	30				
1,2-Dichlorobenzene	55*	52*	66-108	7	30				
1,3-Dichlorobenzene	52*	50*	63-109	4	30				
1,4-Dichlorobenzene	52*	50*	70-100	3	30				
3,3'-Dichlorobenzidine	49	46	16-119	7	30				
2,4-Dichlorophenol	72*	73*	78-117	1	30				
2,4-Dimethylphenol	70*	69*	78-110	3	30				
3,5-Dimethylphenol	101	105	70-130	3	30				
4,6-Dinitro-2-methylphenol	0*	0*	24-116	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	69*	72*	73-113	3	30				
2,6-Dinitrotoluene	70	71	69-123	0	30				
1,2-Diphenylhydrazine	73	76	71-129	2	30				
bis(2-Ethylhexyl)phthalate	74	77	63-122	2	30				
Hexachlorobenzene	70*	73*	77-114	4	30				
Hexachlorobutadiene	56*	55*	62-120	3	30				
Hexachlorocyclopentadiene	26	28	10-153	5	30				
Hexachloroethane	49*	46*	57-109	8	30				
Isophorone	68*	69*	73-102	0	30				
2-Methylphenol	70*	69*	75-111	2	30				
4-Methylphenol	65*	64*	71-111	2	30				
2-Nitroaniline	76	78	67-125	1	30				
3-Nitroaniline	71	72	59-122	0	30				
4-Nitroaniline	58	62	52-112	5	30				
Nitrobenzene	68*	67*	72-106	2	30				
2-Nitrophenol	53*	55*	74-115	2	30				
4-Nitrophenol	57	54	54-113	7	30				
N-Nitroso-di-n-propylamine	66	67	60-116	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	69*	70*	86-145	0	30				
Pentachlorophenol	52	41	28-127	25	30				
Phenol	68	69	58-126	0	30				
1,2,4-Trichlorobenzene	61*	58*	72-115	5	30				
2,4,5-Trichlorophenol	71*	71*	78-109	1	30				
2,4,6-Trichlorophenol	72*	74*	77-115	1	30				
Batch number: 11167SLI026	Sample number(s): 6308035-6308041 UNSPK: P309733								
Acenaphthene	75	68	63-105	9	30				
Acenaphthylene	70	63*	67-114	11	30				
Anthracene	76	70	60-122	9	30				
Benzo(a)anthracene	85	78	59-128	9	30				
Benzo(a)pyrene	86	79	45-138	9	30				
Benzo(b)fluoranthene	88	83	43-155	7	30				
Benzo(g,h,i)perylene	63	61	33-141	4	30				
Benzo(k)fluoranthene	90	83	42-144	9	30				
Butylbenzylphthalate	95	87	57-173	10	30				
Di-n-butylphthalate	91	85	65-148	7	30				
Chrysene	83	77	48-134	8	30				
Dibenz(a,h)anthracene	75	72	22-133	6	30				
Diethylphthalate	78	74	70-136	5	30				
Dimethylphthalate	78	73*	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	87	79	39-167	10	30				
Fluoranthene	79	73	26-166	8	30				
Fluorene	76	70	66-122	9	30				
Indeno(1,2,3-cd)pyrene	73	69	21-143	5	30				
1-Methylnaphthalene	79	72	72-123	10	30				
2-Methylnaphthalene	71	64	64-103	10	30				
Naphthalene	72	66	61-102	9	30				
N-Nitrosodimethylamine	81	76	48-113	7	30				
Di-n-octylphthalate	92	83	40-192	10	30				
Phenanthrene	74	70	12-165	7	30				
Pyrene	73	69	15-153	6	30				
Batch number: 111640007A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P309733								
4-Amino-2,6-Dinitrotoluene	108	117	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	111	119	38-166	5	50				
2,4-Dinitrotoluene	102	110	80-131	5	50				
2,6-Dinitrotoluene	108	115	80-127	5	50				
HMX	90	100	63-128	8	50				
Nitrobenzene	108	113	80-125	3	50				
Nitroglycerin	91	99	80-120	6	50				
2-Nitrotoluene	101	109	80-122	6	50				
3-Nitrotoluene	108	116	72-119	5	50				
4-Nitrotoluene	100	109	80-125	6	50				
PETN	116	128*	80-121	8	50				
RDX	82	90	75-129	7	50				
Tetryl	64	74	55-174	12	50				
1,3,5-Trinitrobenzene	83	91	82-126	7	50				
2,4,6-Trinitrotoluene	105	115	82-130	7	50				
Batch number: 111640006A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P309733								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
25a Formaldehyde 8315A	101	110	80-120	8	50				
Batch number: 111590022A	Sample number(s): 6308035 UNSPK: P302756								
6a Perchlorate EPA 6850	107	103	80-120	4	20				
Batch number: 111610011A	Sample number(s): 6308035-6308038,6308040-6308041 UNSPK: P305965								
PCB-1016	96	109	29-146	12	50				
PCB-1260	80	98	39-149	19	50				
Batch number: 111650017A	Sample number(s): 6308039 UNSPK: P312169								
PCB-1016	91	93	29-146	1	50				
PCB-1260	99	102	39-149	3	50				
Batch number: 111580038A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P306851								
Ethanol	79	79	48-130	0	20				
Isopropanol	77	77	12-149	1	20				
Methanol	81	82	43-138	0	20				
Batch number: 111600002A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P309733								
Diethylene glycol	45*	27*	59-109	49*	20				
Ethylene glycol	67	48*	63-107	34*	20				
Propylene glycol	74	53*	63-107	33*	20				
Batch number: 111590037A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P305964								
m-Terphenyl	68*	0*	75-125	200*	20				
o-Terphenyl	76	840*	75-125	167*	20				
p-Terphenyl	79	0*	75-125	200*	20				
Batch number: 111610013A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P309733								
EFH (C12-C14)	96	86	49-123	12	20				
EFH (C15-C20)	114	98	49-123	15	20				
EFH (C21-C30)	110	86	49-123	25*	20				
EFH (C30 - C40)	100	88	49-123	11	20				
EFH (C8-C11)	95	84	49-123	12	20				
Batch number: 111581026004A	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Antimony	58*	55*	75-125	4	20	0.153 J	0.149 J	3 (1)	20
Arsenic	116	83	75-125	8	20	5.64	4.83	16	20
Beryllium	75	72*	75-125	2	20	0.696	0.637	9	20
Cadmium	110	103	75-125	6	20	0.111	0.118	6 (1)	20
Chromium	91	82	75-125	3	20	23.4	23.1	2	20
Cobalt	97	94	75-125	2	20	7.87	8.31	6	20
Copper	100	94	75-125	3	20	11.0	11.0	0	20
Lead	101	57*	75-125	12	20	8.38	6.41	27*	20
Nickel	113	107	75-125	2	20	15.5	15.1	3	20
Silver	103	99	75-125	3	20	0.0473 J	0.0384 J	21* (1)	20
Thallium	107	87	75-125	12	20	0.242	0.235	3 (1)	20
Vanadium	105 (2)	97 (2)	75-125	1	20	47.3	43.6	8	20
Zinc	96 (2)	69 (2)	75-125	5	20	45.2	43.4	4	20
Batch number: 111581026004B	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Selenium	96	100	75-125	5	20	0.0452 J	0.0396 U	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111581026004C	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Molybdenum	99	94	75-125	4	20	0.245	0.227	8 (1)	20
Batch number: 111581026004D	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Barium	139 (2)	37 (2)	75-125	8	20	113	105	7	20
Batch number: 111585708002	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Boron	100	102	84-115	1	20	15.1	13.8	9 (1)	20
Calcium	94 (2)	-2118 (2)	75-125	35*	20	28,500	29,400	3	20
Iron	-1141 (2)	854 (2)	75-125	8	20	25,200	23,900	6	20
Lithium	102	103	82-114	1	20	20.9	19.4	8	20
Magnesium	114 (2)	198 (2)	75-125	3	20	5,470	5,120	7	20
Manganese	204 (2)	378 (2)	75-125	24*	20	213	307	36*	20
Phosphorus	84	105	75-125	6	20	240	244	2	20
Potassium	149*	151*	75-125	0	20	2,650	2,600	2	20
Sodium	97	99	75-125	2	20	636	594	7	20
Strontium	98	97	75-115	1	20	38.4	35.6	8	20
Tin	87	88	80-110	2	20	2.48 J	2.44 J	2 (1)	20
Zirconium	97	98	75-125	1	20	2.76 J	4.72 J	52* (1)	20
Batch number: 111585711003	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Mercury	106	112	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 111595708002	Sample number(s): 6308035-6308041 UNSPK: P302797 BKG: P302797								
Aluminum	1002 (2)	704 (2)	75-125	2	20	25,800	24,700	5	20
Titanium	360 (2)	310 (2)	75-125	4	20	1,010	1,160	13	20
Batch number: 11160102201A	Sample number(s): 6308035-6308036,6308039-6308041 UNSPK: P306847 BKG: P306847								
17a Cyanide by 9012B	104		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11161243202A	Sample number(s): 6308035-6308041 UNSPK: P309733 BKG: P309733								
3a Cr VI by EPA 7199	93		75-125			0.39 J	0.44 J	13 (1)	20
Batch number: 11166621202B	Sample number(s): 6308035-6308041 UNSPK: P305966 BKG: P305966								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11171621201A	Sample number(s): 6308035-6308041 UNSPK: 6308035 BKG: 6308035								
11a Anions by 300.0 - Fluoride	33*		80-120			17.7	14.2	22*	20
11a Anions by 300.0 - Nitrate	80		80-120			3.4	2.8	21* (1)	20
Batch number: 11160039401A	Sample number(s): 6308035-6308041 BKG: P309733								
18a pH by 9045C						8.81	8.54	3	3
Batch number: 11165162401B	Sample number(s): 6308037-6308038 BKG: P312177								
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11174162402A	Sample number(s): 6308035-6308036,6308039-6308041 BKG: P309733								
Moisture Content by 160.3						12.2	12.2	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6308035	104	101	98	93
6308036	106	106	98	95
6308037	105	103	99	94
6308039	105	101	98	93
6308040	106	104	100	92
6308041	105	102	99	92
Blank	105	109	98	96
LCS	104	101	101	101
LCSD	102	100	101	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111601AA

	Toluene-d8
6308042	101
Blank	100
LCS	100
MS	102
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111611AA

	Toluene-d8
6308035	93
6308036	95
6308037	95
6308039	97
6308040	96
6308041	103
Blank	95
LCS	94
LCSD	95
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6308042	106	103	100	98
Blank	106	101	100	97
LCS	105	100	100	103

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Surrogate Quality Control

LCSD	104	98	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11160SLB026

	N-Nitrosodimethylamine-d6
6308035	81
6308036	97
6308039	92
6308040	100
6308041	99
Blank	109
LCS	124
MS	115
MSD	113
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11160SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6308035	85	84	78	75	70	90
6308036	91	90	91	85	84	90
6308037	93	91	88	81	77	92
6308038	87	87	86	79	77	88
6308039	89	91	86	89	85	90
6308040	84	84	84	79	76	81
6308041	78	80	77	77	76	79
Blank	86	90	92	88	85	75
LCS	90	94	100	92	87	85
MS	93	94	87	84	84	86
MSD	91	91	85	84	81	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6308035	92	80	89
6308036	94	81	90
6308037	92	78	93
6308038	89	77	91
6308039	89	79	89
6308040	89	73	86
6308041	93	80	87
Blank	92	81	95
LCS	99	85	98
MS	90	78	87
MSD	88	76	85
Limits:	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11157A34B

	Trifluorotoluene-F
6308035	74
6308036	74
6308039	76
6308040	73
6308041	78
Blank	82
LCS	91
LCSD	101
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11165A20A

	Trifluorotoluene-F
6308042	67
Blank	67
LCS	93
LCSD	90
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111610011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6308035	98	124*
6308036	106	125*
6308037	81	94
6308038	99	123*
6308040	116	135*
6308041	91	109
Blank	95	118
LCS	95	122*
LCSD	94	120
MS	91	97
MSD	114	116
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111640006A

	Butyraldehyde
6308035	136*
6308036	131*
6308039	126
6308040	125
6308041	116
Blank	156*
LCS	126
MS	127*
MSD	122

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111640007A

	2-Nitro-m-xylene
6308035	120
6308036	112
6308039	113
6308040	109
6308041	113
Blank	122
LCS	109
LCSD	115
MS	108
MSD	120

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111650017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6308039	103	105
Blank	104	103
LCS	102	106
LCSD	102	108
MS	91	94
MSD	92	98

Limits: 53-139 45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111580038A

	Acetone
6308035	82
6308036	81
6308039	76
6308040	72
6308041	79
Blank	94
LCS	93
MS	80
MSD	79

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590037A

	n-Triacontane-d62
6308035	91
6308036	91
6308039	91
6308040	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250146
Reported: 08/30/11 at 01:50 PM

Surrogate Quality Control

6308041	91
Blank	96
LCS	97
MS	110
MSD	0*
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111600002A

	Tetramethylene glycol
6308035	81
6308036	87
6308039	83
6308040	83
6308041	82
Blank	102
LCS	116
MS	89
MSD	85
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111610013A

	Chlorobenzene	Orthoterphenyl
6308035	93	102
6308036	86	102
6308039	80	94
6308040	80	95
6308041	90	97
Blank	98	107
LCS	94	106
MS	94	105
MSD	84	96
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013/1250146/6309035-42

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:						6-6-11																					
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-022-SA5DN-SB-4.5	06.06.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-4.0-5.0	06.06.11	1140	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-022-SA5DN-SB-15.5	06.06.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-15.0-16.0	06.06.11	1150	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-053-SA5DN-SB-4.5	06.06.11	1545	SOIL	NONE	4-Encores										X	X											
SL-053-SA5DN-SB-4.0-5.0	06.06.11	1550	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-053-SA5DN-SB-11.5-12.5	06.06.11	1600	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-079-SA8N-SB-4.5	06.06.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-4.0-5.0	06.06.11	1205	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SB-9.5	06.06.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-9.0-10.0	06.06.11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
[redacted] SB-3.5	[redacted] .11	1610	[redacted]	NONE	4-Encores											X											
[redacted] SB-3.0	[redacted] .11	1615	[redacted]	NONE	3-16 oz jars		X		X		X											X					
TB-060611	06.06.11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 06/06/2011 / 1700		Received for Laboratory by: (Signature) 6/7/11 1015																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3339 9143, 9154																								

→ SL-133-SA8N-SB-4.5 and SL-133-SA8N-SB-4.0-5.0 per bottle labels. Confirmed by PH. NM 6/8/11

August 30, 2011

Mr. Todd Burgesser
CDM
Suite 1100, 555 17th Street
Denver, CO 80202

Dear Mr. Burgesser:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. SSFL Area IV Collocated Soil Sampling

Group No. 1250146

LLI Sample No.	Client Sample Identification	Collection Date
6308035	SL-022-SA5DN-SB-4.0-5.0 Soil	06/06/2011
6308036	SL-022-SA5DN-SB-15.0-16.0 Soil	06/06/2011
6308039	SL-079-SA8N-SB-4.0-5.0 Soil	06/06/2011
6308040	SL-079-SA8N-SB-9.0-10.0 Soil	06/06/2011
6308041	SL-133-SA8N-SB-4.0-5.0 Soil	06/06/2011

The correction to the data affects the NDMA in Solids by 1625C analysis only.

During an additional review of this data, it was determined that the incorrect surrogate recovery was reported for the background, matrix spike, and matrix spike duplicate samples. The surrogate recovery has been re-calculated. No other changes were made to the data.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1910. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Rachel R. Cochis
Senior Specialist/Group Leader
GC/MS Semivolatiles

RRC/mcs
Enclosures

cc: Nicole Maljovec

eurofins | Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		**Inorganic Qualifiers**	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/18/2011
Group Number: 1252253
SDG: DE183
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-051-SA8N-SB-7.5-8.5 Soil	6320623
SL-054-SA8N-SB-7.0 Soil	6320624
SL-058-SA8N-SB-7.5 Soil	6320625
SL-059-SA8N-SB-9.0 Soil	6320626
SL-063-SA8N-SB-6.5 Soil	6320627
TB-061711 Water	6320628

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9	1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.01
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	1.01
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5	1.01
06192	Chloroform	67-66-3	1.9	J	0.13	4.5	1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.01
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5	1.01
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.01
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.01
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.01
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5	1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9	1.01
06192	Methylene Chloride	75-09-2	2.2	J	0.27	4.5	1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.01

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.01
06192	Tetrachloroethene	127-18-4	0.52	J	0.22	4.5	1.01
06192	Toluene	108-88-3	0.17	J	0.09	4.5	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	1.01
06192	Trichloroethene	79-01-6	10		0.17	4.5	1.01
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5	1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.01
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	23.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.78	J	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	3.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	16		0.36	1.9	1
10225	PCB-1260	11096-82-5	4.2		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,200		6.47	21.4	1
07914	Boron	7440-42-8	6.89		0.385	5.35	1
01650	Calcium	7440-70-2	6,070		2.67	21.4	1
01654	Iron	7439-89-6	30,500		14.0	107	5
01656	Lithium	7439-93-2	21.6		0.66	2.1	1
01657	Magnesium	7439-95-4	6,220		0.470	10.7	1
06958	Manganese	7439-96-5	532		0.0385	0.535	1
10145	Phosphorus	7723-14-0	321		0.374	10.7	1
01662	Potassium	7440-09-7	5,570		12.1	53.5	1
01667	Sodium	7440-23-5	237		6.36	107	1
07968	Strontium	7440-24-6	32.5		0.0267	0.535	1
06969	Tin	7440-31-5	2.97	J	0.342	10.7	1
06970	Titanium	7440-32-6	1,550		0.0759	1.07	1
10146	Zirconium	7440-67-7	5.65		0.492	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.311		0.0784	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.26		0.0847	0.424	2
06126	Barium	7440-39-3	160		0.112	0.424	2
06127	Beryllium	7440-41-7	0.928		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.461		0.0466	0.106	2
06131	Chromium	7440-47-3	41.2		0.127	0.424	2
06132	Cobalt	7440-48-4	12.2		0.0212	0.106	2
06133	Copper	7440-50-8	21.2		0.0847	0.424	2
06135	Lead	7439-92-1	11.8		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.880		0.0529	0.106	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	22.7	0.106	0.424	2
06141	Selenium	7782-49-2	0.316 J	0.0614	0.424	2
06142	Silver	7440-22-4	0.0513 J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.429	0.0318	0.106	2
06148	Vanadium	7440-62-2	73.8	0.0233	0.106	2
06149	Zinc	7440-66-6	78.9	0.593	3.18	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084 J	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.93 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.80	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5DN-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 20:14	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 16:36	Jason M Long	23.19

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116924720	06/18/2011 17:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116924720	06/18/2011 17:26	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 18:31	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 05:46	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 01:48	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:42	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:49	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 09:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 09:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 09:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 09:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:13	Damary Valentin	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-051-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA8N-SB-7.5-8.5

LLI Sample # SW 6320623
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 09:50

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18301 SDG#: DE183-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11178621201A	06/27/2011 16:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201B	06/28/2011 01:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11187243201A	07/07/2011 16:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11178621201A	06/27/2011 09:35	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201B	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11187243201A	07/06/2011 16:50	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

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Analysis Report

Sample Description: SL-054-SA8N-SB-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA8N-SB-7.0

LLI Sample # SW 6320624
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:30

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18302 SDG#: DE183-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.4	U	7.4	8.9	1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.4	1.03
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4	1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4	1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4	1.03
06192	Bromoform	75-25-2	0.44	U	0.44	4.4	1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4	1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4	1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4	1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4	1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4	1.03
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4	1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.4	1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4	1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4	1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4	1.03
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4	1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4	1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4	1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.4	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4	1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4	1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4	1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4	1.03
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4	1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4	1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4	1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4	1.03
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4	1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4	1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.4	1.03
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4	1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4	1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9	1.03
06192	Methylene Chloride	75-09-2	2.8	J	0.27	4.4	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4	1.03

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA8N-SB-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA8N-SB-7.0

LLI Sample # SW 6320624
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:30

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18302 SDG#: DE183-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4	1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4	1.03
06192	Toluene	108-88-3	0.14	J	0.09	4.4	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4	1.03
06192	Trichloroethene	79-01-6	0.97	J	0.17	4.4	1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4	1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4	1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4	1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	25.25
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 20:37	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 16:56	Jason M Long	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:36	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-054-SA8N-SB-7.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA8N-SB-7.0

LLI Sample # SW 6320624
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:30

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18302 SDG#: DE183-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116924720	06/18/2011 17:28	Christopher D Meeks	n.a.
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA8N-SB-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA8N-SB-7.5

LLI Sample # SW 6320625
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:40

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18303 SDG#: DE183-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.7	U	7.7	9.2	1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.6	1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6	1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6	1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6	1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6	1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6	1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2	1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6	1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6	1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6	1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6	1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6	1.03
06192	Chloroform	67-66-3	0.16	J	0.14	4.6	1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6	1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6	1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6	1.03
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6	1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6	1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6	1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6	1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6	1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6	1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6	1.03
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6	1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6	1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6	1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6	1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6	1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6	1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6	1.03
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6	1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6	1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2	1.03
06192	Methylene Chloride	75-09-2	2.0	J	0.28	4.6	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6	1.03

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA8N-SB-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA8N-SB-7.5

LLI Sample # SW 6320625
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:40

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18303 SDG#: DE183-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6	1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6	1.03
06192	Toluene	108-88-3	0.13	J	0.09	4.6	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6	1.03
06192	Trichloroethene	79-01-6	11		0.17	4.6	1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6	1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6	1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6	1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17	25.35
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 20:59	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 17:16	Jason M Long	25.35
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:36	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA8N-SB-7.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA8N-SB-7.5

LLI Sample # SW 6320625
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 15:40

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18303 SDG#: DE183-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116924720	06/18/2011 17:29	Christopher D Meeks	n.a.
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA8N-SB-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA8N-SB-9.0

LLI Sample # SW 6320626
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:35

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18304 SDG#: DE183-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		7.1	8.5	0.86
06192	Benzene	71-43-2	0.11	U	0.11	4.2	0.86
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.86
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.86
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.86
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5	0.86
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.86
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.86
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.86
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.86
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2	0.86
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.86
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.86
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.86
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.86
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3	0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2	0.86
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.86
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.86
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.86
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.86
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.86
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2	0.86
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.86
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.86
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.86
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.86
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.86
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.86
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3	0.86
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.86
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5	0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.86
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.86
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5	0.86
06192	Methylene Chloride	75-09-2	1.7	J	0.25	4.2	0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.86

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA8N-SB-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA8N-SB-9.0

LLI Sample # SW 6320626
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:35

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18304 SDG#: DE183-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2	0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.86
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.86
06192	Toluene	108-88-3	0.12	J	0.08	4.2	0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.86
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.86
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2	0.86
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.86
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2	0.86
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2	0.86
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.86
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.86
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	21.93
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.8		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 21:21	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 17:36	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:36	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA8N-SB-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA8N-SB-9.0

LLI Sample # SW 6320626
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:35

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18304 SDG#: DE183-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116924720	06/18/2011 17:31	Christopher D Meeks	n.a.
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-063-SA8N-SB-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA8N-SB-6.5

LLI Sample # SW 6320627
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:25

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18305 SDG#: DE183-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.5	U	7.5	8.9	1.03
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.03
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.03
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.03
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	1.03
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.03
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.03
06192	Chloroform	67-66-3	0.13	U	0.13	4.5	1.03
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.03
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5	1.03
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	1.03
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.03
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.03
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	1.03
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.03
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	1.03
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.03
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.03
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.03
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.03
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5	1.03
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	8.9	1.03
06192	Methylene Chloride	75-09-2	5.4		0.27	4.5	1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.03

*=This limit was used in the evaluation of the final result

Sample Description: SL-063-SA8N-SB-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA8N-SB-6.5

LLI Sample # SW 6320627
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:25

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18305 SDG#: DE183-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.03
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	1.03
06192	Toluene	108-88-3	0.11	J	0.09	4.5	1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	1.03
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	1.03
06192	Trichloroethene	79-01-6	1.8	J	0.17	4.5	1.03
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5	1.03
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.03
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	1.03
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.03
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	23.72
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 21:43	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 17:56	Jason M Long	23.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116924720	06/18/2011 17:36	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-063-SA8N-SB-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA8N-SB-6.5

LLI Sample # SW 6320627
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 11:25

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18305 SDG#: DE183-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116924720	06/18/2011 17:33	Christopher D Meeks	n.a.
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11179162401A	06/28/2011 21:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-061711 Water
SSFL Area IV Collocated Soil Sampling
TB-061711

LLI Sample # WW 6320628
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 08:00

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18306 SDG#: DE183-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-061711 Water
SSFL Area IV Collocated Soil Sampling
TB-061711

LLI Sample # WW 6320628
LLI Group # 1252253
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/17/2011 08:00

Submitted: 06/18/2011 10:15
Reported: 07/08/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18306 SDG#: DE183-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111712AA	06/20/2011 23:12	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111721AA	06/21/2011 11:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111712AA	06/20/2011 23:12	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111721AA	06/21/2011 11:05	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111712AA	Sample number(s): 6320623-6320627									
Acetone	6.7	U	6.7	8.0	ug/kg	112		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	104		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	105		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	98		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	114		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	111		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	74		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	88		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	110		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	94		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	111		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	54		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	110		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	108		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	93		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	112		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	107		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	100		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	112		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	110		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	103		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	104		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	114		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.87	J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	112		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	112		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	114		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	111		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	110		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	103		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	112		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	91		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	116		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	112		80-120		
Batch number: E111711AA	Sample number(s): 6320623-6320627									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	95	104	70-130	9	30
Batch number: E111721AA	Sample number(s): 6320628									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	114	80-123	4	30
Batch number: L111712AA	Sample number(s): 6320628									
Acetone	6	U	6.	20	ug/l	88	89	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	98	99	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	97	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	95	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	83	84	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	90	93	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	86	88	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	99	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	87	88	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	87	90	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	93	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	94	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	94	98	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	41	40	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	83	83	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	100	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	92	95	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	86	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	99	79-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	94	95	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	89	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	98	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	99	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	92	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	94	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	90	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	100	79-120	1	30
Freon 113	2	U	2.	10	ug/l	83	87	69-128	5	30
Freon 133a	2	U	2.	5	ug/l	84	84	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	88	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	85	88	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	97	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	91	93	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	86	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	95	98	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	96	97	80-120	2	30
Styrene	1	U	1.	5	ug/l	96	99	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	98	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	101	103	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	90	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	83	86	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	90	94	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	94	96	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	97	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	99	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	97	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	92	95	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Batch number: 11172SLC026	Sample number(s): 6320623									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	61		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	80		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	93		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11176SLB026	Sample number(s): 6320623									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	77		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	122		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	126		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	128		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	132		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	85		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	131		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	128		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 111730018A	Sample number(s): 6320623									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	98	96	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111721026001A	Sample number(s): 6320623									
Antimony	0.101	J	0.0740	0.200	mg/kg	142		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		83-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	99		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	98		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	102		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	103		81-112		
Batch number: 111721026001B	Sample number(s): 6320623									
Selenium	0.0580	U	0.0580	0.400	mg/kg	103		83-111		
Batch number: 111721026001C	Sample number(s): 6320623									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 111721026001D	Sample number(s): 6320623									
Barium	0.106	U	0.106	0.400	mg/kg	106		81-111		
Batch number: 111725708002	Sample number(s): 6320623									
Aluminum	6.05	U	6.05	20.0	mg/kg	104		61-110		
Boron	0.360	U	0.360	5.00	mg/kg	98		78-110		
Calcium	2.50	U	2.50	20.0	mg/kg	101		88-110		
Iron	4.19	J	2.61	20.0	mg/kg	101		61-110		
Lithium	0.62	U	0.62	2.0	mg/kg	100		80-120		
Magnesium	0.703	J	0.440	10.0	mg/kg	102		82-110		
Manganese	0.0380	J	0.0360	0.500	mg/kg	104		89-112		
Phosphorus	1.71	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	102		78-110		
Sodium	5.95	U	5.95	100	mg/kg	97		87-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0250	U	0.0250	0.500	mg/kg	103		86-110		
Tin	1.71	J	0.320	10.0	mg/kg	103		90-114		
Titanium	0.0710	U	0.0710	1.00	mg/kg	106		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 111725711004	Sample number(s): 6320623									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		88-123		
Batch number: 11176621201B	Sample number(s): 6320623									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11178621201A	Sample number(s): 6320623									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11187243201A	Sample number(s): 6320623									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11179039401B	Sample number(s): 6320623									
18a pH by 9045C						100		95-105		
Batch number: 11179162401A	Sample number(s): 6320623-6320627									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111712AA	Sample number(s): 6320623-6320627 UNSPK: P316978								
Acetone	100	111	15-210	13	30				
Benzene	107	107	55-143	2	30				
Bromobenzene	104	100	43-139	1	30				
Bromochloromethane	109	107	60-137	0	30				
Bromodichloromethane	103	102	53-136	1	30				
Bromoform	102	103	38-124	3	30				
Bromomethane	79	79	42-168	2	30				
2-Butanone	93	98	37-163	7	30				
n-Butylbenzene	106	102	30-146	2	30				
sec-Butylbenzene	107	102	33-157	3	30				
tert-Butylbenzene	102	100	41-152	0	30				
Carbon Tetrachloride	115	112	45-153	0	30				
Chlorobenzene	109	106	49-135	1	30				
Chloroethane	71	72	39-152	5	30				
2-Chloroethyl Vinyl Ether	85	89	32-139	7	30				
Chloroform	110	108	61-142	0	30				
Chloromethane	95	97	51-163	4	30				
2-Chlorotoluene	103	99	42-146	2	30				
4-Chlorotoluene	107	102	39-145	3	30				
Chlorotrifluoroethene	55*	53*	70-130	5	30				
1,2-Dibromo-3-chloropropane	101	103	30-139	4	30				
Dibromochloromethane	104	103	51-128	1	30				
1,2-Dibromoethane	105	104	54-129	1	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibromomethane	100	100	57-130	2	30				
1,2-Dichlorobenzene	106	103	36-133	1	30				
1,3-Dichlorobenzene	104	99	34-134	3	30				
1,4-Dichlorobenzene	104	99	35-136	2	30				
Dichlorodifluoromethane	96	94	26-151	1	30				
1,1-Dichloroethane	109	107	63-142	0	30				
1,2-Dichloroethane	113	111	68-131	1	30				
1,1-Dichloroethene	113	112	61-149	1	30				
cis-1,2-Dichloroethene	106	104	60-136	1	30				
trans-1,2-Dichloroethene	109	102	59-142	4	30				
1,2-Dichloropropane	100	101	62-135	3	30				
1,3-Dichloropropane	105	104	58-129	2	30				
2,2-Dichloropropane	110	111	53-147	4	30				
1,1-Dichloropropene	110	110	54-145	2	30				
cis-1,3-Dichloropropene	98	98	51-131	3	30				
trans-1,3-Dichloropropene	99	99	49-129	2	30				
Ethylbenzene	109	105	44-141	2	30				
Freon 113	112	113	56-156	2	30				
Freon 133a	101	99	61-131	3	30				
Hexachlorobutadiene	95	90	10-155	3	30				
2-Hexanone	96	104	32-160	11	30				
Isopropylbenzene	111	107	38-144	1	30				
p-Isopropyltoluene	106	100	29-152	3	30				
Methyl Tertiary Butyl Ether	101	102	55-129	3	30				
4-Methyl-2-pentanone	95	101	46-139	8	30				
Methylene Chloride	108	107	61-141	1	30				
n-Propylbenzene	108	104	39-157	1	30				
Styrene	110	106	35-134	1	30				
1,1,1,2-Tetrachloroethane	107	106	52-130	1	30				
1,1,2,2-Tetrachloroethane	96	97	40-152	3	30				
Tetrachloroethene	115	115	42-149	2	30				
Toluene	108	106	50-146	0	30				
1,2,3-Trichlorobenzene	99	96	10-140	1	30				
1,2,4-Trichlorobenzene	93	89	10-136	2	30				
1,1,1-Trichloroethane	110	107	64-142	0	30				
1,1,2-Trichloroethane	104	104	54-139	2	30				
Trichloroethene	106	104	53-144	1	30				
Trichlorofluoromethane	105	104	47-163	1	30				
1,2,3-Trichloropropane	97	99	45-154	4	30				
1,2,4-Trimethylbenzene	105	100	37-149	2	30				
1,3,5-Trimethylbenzene	108	104	38-150	2	30				
Vinyl Chloride	92	93	50-154	3	30				
m+p-Xylene	113	109	44-137	2	30				
o-Xylene	107	105	42-137	0	30				
Batch number: E111711AA	Sample number(s): 6320623-6320627 UNSPK: P316978								
1,4-Dioxane	83	85	70-130	12	30				
Batch number: 11172SLC026	Sample number(s): 6320623 UNSPK: P315633								
Aniline	73	76	35-95	5	30				
Benzidine	45	53	35-141	17	30				
Benzoic acid	76	70	10-173	7	30				
Benzyl alcohol	91	91	67-115	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Bromophenyl-phenylether	93	89	67-129	3	30				
Carbazole	93	93	64-120	0	30				
4-Chloro-3-methylphenol	93	91	76-110	2	30				
4-Chloroaniline	68	74	23-95	9	30				
bis(2-Chloroethoxy)methane	91	85	75-104	6	30				
bis(2-Chloroethyl)ether	85	86	60-116	2	30				
bis(2-Chloroisopropyl)ether	81	78	55-142	3	30				
2-Chloronaphthalene	101	90	50-141	11	30				
2-Chlorophenol	89	87	73-121	1	30				
4-Chlorophenyl-phenylether	92	89	80-109	3	30				
Dibenzofuran	93	90	71-112	2	30				
1,2-Dichlorobenzene	84	83	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	1	30				
1,4-Dichlorobenzene	84	82	70-100	1	30				
3,3'-Dichlorobenzidine	80	80	16-119	0	30				
2,4-Dichlorophenol	93	90	78-117	2	30				
2,4-Dimethylphenol	95	93	78-110	1	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	93	90	24-116	3	30				
2,4-Dinitrophenol	88	87	20-143	0	30				
2,4-Dinitrotoluene	92	91	73-113	0	30				
2,6-Dinitrotoluene	95	92	69-123	2	30				
1,2-Diphenylhydrazine	103	95	71-129	7	30				
Hexachlorobenzene	96	90	77-114	7	30				
Hexachlorobutadiene	90	85	62-120	5	30				
Hexachlorocyclopentadiene	84	80	10-153	5	30				
Hexachloroethane	85	81	57-109	4	30				
Isophorone	92	89	73-102	3	30				
2-Methylphenol	88	85	75-111	3	30				
4-Methylphenol	85	85	71-111	0	30				
2-Nitroaniline	97	96	67-125	0	30				
3-Nitroaniline	86	87	59-122	2	30				
4-Nitroaniline	68	72	52-112	6	30				
Nitrobenzene	92	90	72-106	2	30				
2-Nitrophenol	93	90	74-115	2	30				
4-Nitrophenol	83	82	54-113	1	30				
N-Nitroso-di-n-propylamine	84	83	60-116	1	30				
N-Nitrosodiphenylamine	100	94	86-145	6	30				
Pentachlorophenol	90	89	28-127	1	30				
Phenol	91	89	58-126	1	30				
1,2,4-Trichlorobenzene	95	90	72-115	4	30				
2,4,5-Trichlorophenol	97	91	78-109	6	30				
2,4,6-Trichlorophenol	96	94	77-115	1	30				
Batch number: 11176SLB026	Sample number(s): 6320623 UNSPK: P318822								
Acenaphthene	85	81	63-105	5	30				
Acenaphthylene	78	75	67-114	3	30				
Anthracene	89	86	60-122	4	30				
Benzo(a)anthracene	103	98	59-128	4	30				
Benzo(a)pyrene	120	116	45-138	4	30				
Benzo(b)fluoranthene	124	118	43-155	6	30				
Benzo(g,h,i)perylene	121	121	33-141	1	30				
Benzo(k)fluoranthene	128	122	42-144	4	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	108	103	57-173	4	30				
Di-n-butylphthalate	110	104	65-148	6	30				
Chrysene	100	95	48-134	4	30				
Dibenz(a,h)anthracene	126	127	22-133	0	30				
Diethylphthalate	95	91	70-136	5	30				
Dimethylphthalate	89	87	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	110	104	39-167	6	30				
Fluoranthene	98	92	26-166	6	30				
Fluorene	86	81	66-122	5	30				
Indeno(1,2,3-cd)pyrene	125	126	21-143	1	30				
1-Methylnaphthalene	94	89	72-123	5	30				
2-Methylnaphthalene	84	78	64-103	7	30				
Naphthalene	86	80	61-102	7	30				
N-Nitrosodimethylamine	93	89	48-113	3	30				
Di-n-octylphthalate	129	121	40-192	7	30				
Phenanthrene	90	84	12-165	7	30				
Pyrene	91	85	15-153	7	30				
Batch number: 111730018A	Sample number(s): 6320623 UNSPK: P316978								
PCB-1016	98	82	29-146	17	50				
PCB-1260	120	103	39-149	16	50				
Batch number: 111721026001A	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462								
Antimony	64*	53*	75-125	13	20	0.346	0.596	53* (1)	20
Arsenic	99	98	75-125	1	20	6.11	5.72	7	20
Beryllium	103	90	75-125	7	20	0.896	0.833	7	20
Cadmium	120	108	75-125	10	20	0.165	0.323	65* (1)	20
Chromium	107	117	75-125	2	20	36.0	34.3	5	20
Cobalt	110	106	75-125	4	20	9.45	10.0	6	20
Copper	99	121	75-125	8	20	15.0	27.7	60*	20
Lead	110	284*	75-125	34*	20	8.88	13.0	38*	20
Nickel	100	117	75-125	5	20	19.2	18.9	2	20
Silver	117	107	75-125	10	20	0.0450 J	0.0414 J	8 (1)	20
Thallium	107	105	75-125	2	20	0.336	0.287	16 (1)	20
Vanadium	114 (2)	118 (2)	75-125	0	20	66.1	59.8	10	20
Zinc	64 (2)	126 (2)	75-125	9	20	57.9	64.6	11	20
Batch number: 111721026001B	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462								
Selenium	100	100	75-125	1	20	0.0958 J	0.0588 J	48* (1)	20
Batch number: 111721026001C	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462								
Molybdenum	116	108	75-125	7	20	0.395	0.423	7 (1)	20
Batch number: 111721026001D	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462								
Barium	144 (2)	148 (2)	75-125	0	20	115	112	3	20
Batch number: 111725708002	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462								
Aluminum	1239 (2)	2136 (2)	75-125	5	20	29,700	26,200	12	20
Boron	99	99	84-115	2	20	4.65 J	3.15 J	39* (1)	20
Calcium	713 (2)	-38 (2)	75-125	22*	20	12,500	12,700	2	20
Iron	1046 (2)	2072 (2)	75-125	3	20	30,000	28,500	5	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Lithium	102	102	82-114	3	20	24.2		22.5		7	20
Magnesium	242 (2)	272 (2)	75-125	1	20	6,070		5,790		5	20
Manganese	-2 (2)	96 (2)	75-125	13	20	352		301		16	20
Phosphorus	154*	145*	75-125	4	20	203		212		4	20
Potassium	156*	166*	75-125	1	20	2,910		2,810		4	20
Sodium	96	98	75-125	1	20	436		409		6 (1)	20
Strontium	97	99	75-115	1	20	39.1		37.4		5	20
Tin	89	88	80-110	4	20	3.19	J	2.16	J	38* (1)	20
Titanium	187 (2)	224 (2)	75-125	2	20	1,260		1,060		18	20
Zirconium	98	96	75-125	5	20	4.92	J	4.64	J	6 (1)	20
Batch number: 111725711004	Sample number(s): 6320623 UNSPK: P314462 BKG: P314462										
Mercury	98	91	65-135	7	20	0.0068	U	0.0067	U	0 (1)	20
Batch number: 11176621201B	Sample number(s): 6320623 UNSPK: 6320623 BKG: 6320623										
7a Perchlorate EPA 314.0	101		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11178621201A	Sample number(s): 6320623 UNSPK: 6320623 BKG: 6320623										
11a Anions by 300.0 - Fluoride	85		80-120			2.5		2.8		14 (1)	20
Batch number: 11187243201A	Sample number(s): 6320623 UNSPK: P328447 BKG: P328447										
3a Cr VI by EPA 7199	92		75-125			0.41	J	0.45	J	8 (1)	20
Batch number: 11179039401B	Sample number(s): 6320623 BKG: 6320623										
18a pH by 9045C						7.80		7.81		0	3
Batch number: 11179162401A	Sample number(s): 6320623-6320627 BKG: P325676										
Moisture Content by 160.3						13.6		14.1		4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6320623	105	103	103	87
6320624	105	104	100	94
6320625	106	104	101	92
6320626	107	101	103	93
6320627	109	108	100	96
Blank	103	102	100	95
LCS	102	103	104	103
MS	103	102	104	104
MSD	103	103	104	104
Limits:	80-120	80-120	81-117	74-121

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Surrogate Quality Control

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111711AA

	Toluene-d8
6320623	98
6320624	97
6320625	98
6320626	98
6320627	97
Blank	98
LCS	99
LCSD	99
MS	97
MSD	97
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111721AA

	Toluene-d8
6320628	100
Blank	100
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6320628	102	103	101	98
Blank	101	105	102	98
LCS	104	102	103	102
LCSD	103	101	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11172SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6320623	84	81	83	85	85	89
Blank	84	86	88	87	89	86
LCS	90	94	92	93	91	90
MS	88	88	90	88	91	90
MSD	88	88	91	90	88	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11176SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6320623	99	79	82
Blank	99	82	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1252253
Reported: 07/08/11 at 09:09 PM

Surrogate Quality Control

LCS	103	83	97
MS	103	84	103
MSD	103	82	95
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111730018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6320623	89	77
Blank	101	108
LCS	106	116
LCSD	100	116
MS	103	113
MSD	100	108
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp# 1252253 Sample# 6320623-28

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahmyle EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SL-051-SA5DN-SB-8.0	06.17.11	0945	SOIL	NONE	4-Encores										X	X											
SL-051-SA5DN-SB-7.5-8.5	06.17.11	0950	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														VOCs & 1,4 D
SL-[illegible]	06.17.11	[illegible]	SOIL	NONE	[illegible]																						only VOCs & 1,4 Dioxane
SL-058-SA5DN-SB-7.0	06.17.11	1540	SOIL	NONE	4-Encores										X	X											VOCs & 1,4
SL-[illegible]	06.17.11	[illegible]	SOIL	NONE	4-Encores																						only VOCs & 1,4 Dioxane
SL-063-SA5DN-SB-6.5	06.17.11	1125	SOIL	NONE	4-Encores										X	X											
TB-061711	06.17.11	0800	WATER	NONE	3-40mL Vials										X	X											Laboratory: Lancaster Laboratories, Inc.

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	06/17/2011 / 1700		6/18/11 1015
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 3481	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, June 23, 2011 2:44 PM
To: Nicole Maljovec
Subject: RE: Friday's COC

ugh, sorry! The bottles are correct.

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, June 22, 2011 8:17 PM
To: Hartman, Pamela
Subject: FW: Friday's COC

Hi Pam,
Can you confirm the sample depths for SL-54 and SL58 (VOCs only) for me?
The bottles say SL-54 at 7.0 and SL-58 at 7.5. The COC has 7.5 for
SL-54 and 7.0 for SL-58.

Thanks!
Nicole
-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Monday, June 20, 2011 1:55 PM
To: Nicole Maljovec
Subject: Friday's COC

Hi Nicole!

I totally spaced on one aspect of our COC for last Friday 6/17/11. We were actually sampling in area 8N, not area 5DN. I have attached an updated COC with the correct samples names. The jars and encores should also have the correct sample name. Sorry for the confusion!

Thanks!!

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

A#13013 G#1252253 S# G320623-28

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 16139	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B §	1,4-Dioxane EPA 8260SIM §	TPH-GRO EPA 8015B §	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenoids EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-051-SA8N-SB-8.0	06.17.11	0945	SOIL	NONE	4-Encores										X	X											Amended COC NLMG 12/3/11
SL-051-SA8N-SB-7.5-8.5	06.17.11	0950	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-058-SA8N-SB-7.5	06.17.11	1540	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-063-SA8N-SB-6.5	06.17.11	1125	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/17/2011 / 1709		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 3481	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, July 01, 2011 4:12 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: Revision to COC dated 6.17.11
Attachments: COC_06_17_11 revised.xlsx

Hi Nicole – Please correct sample number SL-054-SA58N-SB-7.5 shown in red on attached revised COC, in your system. It should be SL-054-SA8N-SB-7.5.
Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

A#13013 Grp# 1252253 Samples# 6320623-28

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																											Amended COC NLM 7/14/11
SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-051-SA8N-SB-8.0	06.17.11	0945	SOIL	NONE	4-Encores										X	X											
SL-051-SA8N-SB-7.5-8.5	06.17.11	0950	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA8N-SB-7.5	06.17.11	1530	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-058-SA8N-SB-7.0	06.17.11	1540	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-059-SA8N-SB-9.0	06.17.11	1135	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
SL-063-SA8N-SB-6.5	06.17.11	1125	SOIL	NONE	4-Encores										X	X											only VOCs & 1,4 Dioxane
TB-061711	06.17.11	0800	WATER	NONE	3-40mL Vials										X	X											
Relinquished by: (*Signature*)	Date/Time 06/17/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 3481																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

May 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/12/2011
Group Number: 1241643
SDG: DX068
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP01-SA8N-QC-041111 Soil	6255801
SL-001-SA8N-SS-0.0-0.5 Soil	6255802
SL-002-SA8N-SS-0.0-0.5 Soil	6255803
SL-003-SA8N-SS-0.0-0.5 Soil	6255804
SL-004-SA8N-SS-0.0-0.5 Soil	6255805
SL-005-SA8N-SS-0.0-0.5 Soil	6255806
SL-006-SA8N-SS-0.0-0.5 Soil	6255807
SL-007-SA8N-SS-0.0-0.5 Soil	6255808
SL-008-SA8N-SS-0.0-0.5 Soil	6255809
SL-009-SA8N-SS-0.0-0.5 Soil	6255810
SL-010-SA8N-SS-0.0-0.5 Soil	6255811
SL-011-SA8N-SS-0.0-0.5 Soil	6255812
SL-013-SA8N-SS-0.0-0.5 Soil	6255813
SL-013-SA8N-SS-0.0-0.5MS Soil	6255814
SL-013-SA8N-SS-0.0-0.5MSD Soil	6255815
SL-014-SA8N-SS-0.0-0.5 Soil	6255816
SL-017-SA8N-SS-0.0-0.5 Soil	6255817
SL-049-SA8N-SS-0.0-0.5 Soil	6255818

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
ELECTRONIC Data Package Group
COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0869	JQ	0.0363	1.16	1
11031	12378-PeCDD	40321-76-4	0.229	JBQ	0.0428	5.82	1
11031	123478-HxCDD	39227-28-6	0.396	JQ	0.0389	5.82	1
11031	123678-HxCDD	57653-85-7	1.60	JB	0.0381	5.82	1
11031	123789-HxCDD	19408-74-3	0.741	JB	0.0357	5.82	1
11031	1234678-HpCDD	35822-46-9	44.9	B	0.0644	5.82	1
11031	OCDD	3268-87-9	462	B	0.0440	11.6	1
11031	2378-TCDF	51207-31-9	0.250	JQ	0.0748	1.16	1
11031	12378-PeCDF	57117-41-6	0.372	JB	0.0329	5.82	1
11031	23478-PeCDF	57117-31-4	0.542	JB	0.0317	5.82	1
11031	123478-HxCDF	70648-26-9	3.07	JB	0.0521	5.82	1
11031	123678-HxCDF	57117-44-9	0.534	JB	0.0380	5.82	1
11031	123789-HxCDF	72918-21-9	0.302	JB	0.0289	5.82	1
11031	234678-HxCDF	60851-34-5	0.594	JB	0.0277	5.82	1
11031	1234678-HpCDF	67562-39-4	5.55	JB	0.0362	5.82	1
11031	1234789-HpCDF	55673-89-7	0.433	JB	0.0266	5.82	1
11031	OCDF	39001-02-0	8.03	JB	0.0234	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	92	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP01-SA8N-QC-041111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP01-SA8N-QC-041111 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8N-QC-041111

LLI Sample # SW 6255801
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX068-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/16/2011 00:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	JQ	0.0253	1.23	1
11031	12378-PeCDD	40321-76-4	0.116	JB	0.0360	6.17	1
11031	123478-HxCDD	39227-28-6	0.101	JQ	0.0272	6.17	1
11031	123678-HxCDD	57653-85-7	0.281	JBQ	0.0273	6.17	1
11031	123789-HxCDD	19408-74-3	0.225	JBQ	0.0241	6.17	1
11031	1234678-HpCDD	35822-46-9	4.19	JB	0.0277	6.17	1
11031	OCDD	3268-87-9	30.4	B	0.0204	12.3	1
11031	2378-TCDF	51207-31-9	0.0890	U	0.0890	1.23	1
11031	12378-PeCDF	57117-41-6	0.0332	U	0.0332	6.17	1
11031	23478-PeCDF	57117-31-4	0.791	JB	0.0343	6.17	1
11031	123478-HxCDF	70648-26-9	1.34	JB	0.0368	6.17	1
11031	123678-HxCDF	57117-44-9	0.198	JB	0.0276	6.17	1
11031	123789-HxCDF	72918-21-9	0.142	JB	0.0228	6.17	1
11031	234678-HxCDF	60851-34-5	0.239	JBQ	0.0214	6.17	1
11031	1234678-HpCDF	67562-39-4	0.824	JB	0.0152	6.17	1
11031	1234789-HpCDF	55673-89-7	0.117	JB	0.0145	6.17	1
11031	OCDF	39001-02-0	1.23	JB	0.0212	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	77	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-001-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8N-SS-0.0-0.5

LLI Sample # SW 6255802
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:15

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD001 SDG#: DX068-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/16/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0245	U	0.0245	1.24	1
11031	12378-PeCDD	40321-76-4	0.227	JB	0.0401	6.18	1
11031	123478-HxCDD	39227-28-6	0.217	JB	0.0297	6.18	1
11031	123678-HxCDD	57653-85-7	0.626	JB	0.0314	6.18	1
11031	123789-HxCDD	19408-74-3	0.462	JB	0.0306	6.18	1
11031	1234678-HpCDD	35822-46-9	11.3	B	0.0466	6.18	1
11031	OCDD	3268-87-9	95.4	B	0.0576	12.4	1
11031	2378-TCDF	51207-31-9	0.434	JB	0.0809	1.24	1
11031	12378-PeCDF	57117-41-6	2.88	JB	0.0325	6.18	1
11031	23478-PeCDF	57117-31-4	0.0343	U	0.0343	6.18	1
11031	123478-HxCDF	70648-26-9	0.648	JB	0.0265	6.18	1
11031	123678-HxCDF	57117-44-9	0.255	JB	0.0240	6.18	1
11031	123789-HxCDF	72918-21-9	0.152	JBQ	0.0309	6.18	1
11031	234678-HxCDF	60851-34-5	0.230	JB	0.0252	6.18	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0170	6.18	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0250	6.18	1
11031	OCDF	39001-02-0	2.03	JB	0.0440	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SS-0.0-0.5

LLI Sample # SW 6255803
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD002 SDG#: DX068-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 16:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226	U	0.0226	1.23	1
11031	12378-PeCDD	40321-76-4	0.122	JBQ	0.0404	6.16	1
11031	123478-HxCDD	39227-28-6	0.188	JBQ	0.0241	6.16	1
11031	123678-HxCDD	57653-85-7	0.431	JB	0.0250	6.16	1
11031	123789-HxCDD	19408-74-3	0.294	JB	0.0251	6.16	1
11031	1234678-HpCDD	35822-46-9	6.26	B	0.0417	6.16	1
11031	OCDD	3268-87-9	42.1	B	0.0381	12.3	1
11031	2378-TCDF	51207-31-9	0.0861	U	0.0861	1.23	1
11031	12378-PeCDF	57117-41-6	2.70	JB	0.0345	6.16	1
11031	23478-PeCDF	57117-31-4	0.508	JB	0.0350	6.16	1
11031	123478-HxCDF	70648-26-9	0.550	JB	0.0272	6.16	1
11031	123678-HxCDF	57117-44-9	0.182	JB	0.0246	6.16	1
11031	123789-HxCDF	72918-21-9	0.0741	JBQ	0.0296	6.16	1
11031	234678-HxCDF	60851-34-5	0.214	JB	0.0236	6.16	1
11031	1234678-HpCDF	67562-39-4	0.719	JB	0.0139	6.16	1
11031	1234789-HpCDF	55673-89-7	0.0862	JBQ	0.0208	6.16	1
11031	OCDF	39001-02-0	0.967	JBQ	0.0366	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SS-0.0-0.5

LLI Sample # SW 6255804
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD003 SDG#: DX068-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 17:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0182	U	0.0182	1.13	1
11031	12378-PeCDD	40321-76-4	0.166	JBQ	0.0309	5.67	1
11031	123478-HxCDD	39227-28-6	0.201	JB	0.0270	5.67	1
11031	123678-HxCDD	57653-85-7	0.639	JB	0.0279	5.67	1
11031	123789-HxCDD	19408-74-3	0.412	JBQ	0.0284	5.67	1
11031	1234678-HpCDD	35822-46-9	10.1	B	0.0374	5.67	1
11031	OCDD	3268-87-9	93.3	B	0.0453	11.3	1
11031	2378-TCDF	51207-31-9	0.466	JBQ	0.0678	1.13	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0268	5.67	1
11031	23478-PeCDF	57117-31-4	0.508	JBQ	0.0308	5.67	1
11031	123478-HxCDF	70648-26-9	0.495	JB	0.0227	5.67	1
11031	123678-HxCDF	57117-44-9	0.219	JBQ	0.0210	5.67	1
11031	123789-HxCDF	72918-21-9	0.140	JBQ	0.0275	5.67	1
11031	234678-HxCDF	60851-34-5	0.285	JBQ	0.0208	5.67	1
11031	1234678-HpCDF	67562-39-4	1.25	JB	0.0129	5.67	1
11031	1234789-HpCDF	55673-89-7	0.125	JBQ	0.0199	5.67	1
11031	OCDF	39001-02-0	1.98	JB	0.0286	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-004-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-004-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA8N-SS-0.0-0.5

LLI Sample # SW 6255805
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 09:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD004 SDG#: DX068-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 18:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.512	JB	0.0341	1.05	1
11031	12378-PeCDD	40321-76-4	4.40	JB	0.0606	5.24	1
11031	123478-HxCDD	39227-28-6	5.95	B	0.0699	5.24	1
11031	123678-HxCDD	57653-85-7	31.1	B	0.0695	5.24	1
11031	123789-HxCDD	19408-74-3	12.8	B	0.0722	5.24	1
11031	1234678-HpCDD	35822-46-9	497	B	0.179	5.24	1
11031	OCDD	3268-87-9	3,720	B	0.118	10.5	1
11031	2378-TCDF	51207-31-9	1.36	B	0.0805	1.05	1
11650	2378-TCDF-Conf	51207-31-9	1.46	B	0.0569	1.05	1
11031	12378-PeCDF	57117-41-6	1.91	JB	0.0362	5.24	1
11031	23478-PeCDF	57117-31-4	27.0	B	0.0379	5.24	1
11031	123478-HxCDF	70648-26-9	4.17	JB	0.0703	5.24	1
11031	123678-HxCDF	57117-44-9	12.0	B	0.0626	5.24	1
11031	123789-HxCDF	72918-21-9	2.96	JB	0.0751	5.24	1
11031	234678-HxCDF	60851-34-5	21.2	B	0.0598	5.24	1
11031	1234678-HpCDF	67562-39-4	43.8	B	0.0394	5.24	1
11031	1234789-HpCDF	55673-89-7	2.68	JB	0.0616	5.24	1
11031	OCDF	39001-02-0	30.2	B	0.0383	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8N-SS-0.0-0.5

LLI Sample # SW 6255806
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD005 SDG#: DX068-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 19:23	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11118002	05/09/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.144	JBQ	0.0275	1.12	1
11031	12378-PeCDD	40321-76-4	0.836	JB	0.0413	5.62	1
11031	123478-HxCDD	39227-28-6	1.11	JB	0.0440	5.62	1
11031	123678-HxCDD	57653-85-7	5.73	B	0.0450	5.62	1
11031	123789-HxCDD	19408-74-3	2.09	JB	0.0457	5.62	1
11031	1234678-HpCDD	35822-46-9	61.4	B	0.0910	5.62	1
11031	OCDD	3268-87-9	818	B	0.106	11.2	1
11031	2378-TCDF	51207-31-9	0.154	JB	0.0254	1.12	1
11031	12378-PeCDF	57117-41-6	0.514	JB	0.0178	5.62	1
11031	23478-PeCDF	57117-31-4	0.746	JB	0.0183	5.62	1
11031	123478-HxCDF	70648-26-9	0.797	JB	0.0296	5.62	1
11031	123678-HxCDF	57117-44-9	0.762	JB	0.0276	5.62	1
11031	123789-HxCDF	72918-21-9	0.372	JB	0.0326	5.62	1
11031	234678-HxCDF	60851-34-5	0.998	JB	0.0267	5.62	1
11031	1234678-HpCDF	67562-39-4	3.44	JB	0.0224	5.62	1
11031	1234789-HpCDF	55673-89-7	0.363	JB	0.0344	5.62	1
11031	OCDF	39001-02-0	1.88	JBQ	0.0345	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA8N-SS-0.0-0.5

LLI Sample # SW 6255807
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:25

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD006 SDG#: DX068-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 20:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	JBQ	0.0275	1.20	1
11031	12378-PeCDD	40321-76-4	0.617	JB	0.0417	6.00	1
11031	123478-HxCDD	39227-28-6	0.529	JB	0.0356	6.00	1
11031	123678-HxCDD	57653-85-7	1.44	JB	0.0379	6.00	1
11031	123789-HxCDD	19408-74-3	0.846	JB	0.0363	6.00	1
11031	1234678-HpCDD	35822-46-9	17.5	B	0.0524	6.00	1
11031	OCDD	3268-87-9	127	B	0.0458	12.0	1
11031	2378-TCDF	51207-31-9	0.358	JBQ	0.0708	1.20	1
11031	12378-PeCDF	57117-41-6	0.716	JB	0.0291	6.00	1
11031	23478-PeCDF	57117-31-4	0.894	JBQ	0.0314	6.00	1
11031	123478-HxCDF	70648-26-9	0.869	JB	0.0315	6.00	1
11031	123678-HxCDF	57117-44-9	0.502	JB	0.0290	6.00	1
11031	123789-HxCDF	72918-21-9	0.359	JB	0.0326	6.00	1
11031	234678-HxCDF	60851-34-5	0.593	JB	0.0287	6.00	1
11031	1234678-HpCDF	67562-39-4	2.01	JB	0.0179	6.00	1
11031	1234789-HpCDF	55673-89-7	0.288	JB	0.0264	6.00	1
11031	OCDF	39001-02-0	2.40	JB	0.0280	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8N-SS-0.0-0.5

LLI Sample # SW 6255808
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 10:40

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD007 SDG#: DX068-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/02/2011 21:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0723	JBQ	0.0134	1.08	1
11031	12378-PeCDD	40321-76-4	0.344	JB	0.0212	5.41	1
11031	123478-HxCDD	39227-28-6	0.309	JB	0.0413	5.41	1
11031	123678-HxCDD	57653-85-7	0.614	JB	0.0425	5.41	1
11031	123789-HxCDD	19408-74-3	0.454	JB	0.0402	5.41	1
11031	1234678-HpCDD	35822-46-9	8.75	B	0.0429	5.41	1
11031	OCDD	3268-87-9	91.1	B	0.0328	10.8	1
11031	2378-TCDF	51207-31-9	0.289	JB	0.0519	1.08	1
11031	12378-PeCDF	57117-41-6	0.358	JBQ	0.0231	5.41	1
11031	23478-PeCDF	57117-31-4	0.564	JB	0.0250	5.41	1
11031	123478-HxCDF	70648-26-9	0.817	JB	0.0424	5.41	1
11031	123678-HxCDF	57117-44-9	0.332	JB	0.0364	5.41	1
11031	123789-HxCDF	72918-21-9	0.326	JB	0.0438	5.41	1
11031	234678-HxCDF	60851-34-5	0.377	JBQ	0.0365	5.41	1
11031	1234678-HpCDF	67562-39-4	1.69	JB	0.0212	5.41	1
11031	1234789-HpCDF	55673-89-7	0.297	JB	0.0323	5.41	1
11031	OCDF	39001-02-0	2.40	JB	0.0373	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SS-0.0-0.5

LLI Sample # SW 6255809
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 11:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD008 SDG#: DX068-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 17:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0637 JBQ	0.0162	1.15	1
11031	12378-PeCDD	40321-76-4	0.0767 JB	0.0210	5.77	1
11031	123478-HxCDD	39227-28-6	0.0419 JB	0.0209	5.77	1
11031	123678-HxCDD	57653-85-7	0.126 JB	0.0215	5.77	1
11031	123789-HxCDD	19408-74-3	0.0828 JB	0.0214	5.77	1
11031	1234678-HpCDD	35822-46-9	1.58 JB	0.0477	5.77	1
11031	OCDD	3268-87-9	9.40 JB	0.0274	11.5	1
11031	2378-TCDF	51207-31-9	0.0588 JB	0.0189	1.15	1
11031	12378-PeCDF	57117-41-6	0.185 JB	0.0165	5.77	1
11031	23478-PeCDF	57117-31-4	0.211 JB	0.0167	5.77	1
11031	123478-HxCDF	70648-26-9	0.294 JB	0.0202	5.77	1
11031	123678-HxCDF	57117-44-9	0.0780 JBQ	0.0195	5.77	1
11031	123789-HxCDF	72918-21-9	0.101 JB	0.0202	5.77	1
11031	234678-HxCDF	60851-34-5	0.0900 JBQ	0.0181	5.77	1
11031	1234678-HpCDF	67562-39-4	0.293 JBQ	0.0159	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0682 JB	0.0198	5.77	1
11031	OCDF	39001-02-0	0.370 JB	0.0278	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8N-SS-0.0-0.5

LLI Sample # SW 6255810
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:45

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD009 SDG#: DX068-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 18:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0488	JB	0.0185	1.14	1
11031	12378-PeCDD	40321-76-4	0.219	JB	0.0243	5.71	1
11031	123478-HxCDD	39227-28-6	0.139	JB	0.0414	5.71	1
11031	123678-HxCDD	57653-85-7	0.473	JB	0.0373	5.71	1
11031	123789-HxCDD	19408-74-3	0.373	JB	0.0331	5.71	1
11031	1234678-HpCDD	35822-46-9	8.36	B	0.0383	5.71	1
11031	OCDD	3268-87-9	72.8	B	0.0430	11.4	1
11031	2378-TCDF	51207-31-9	0.197	JB	0.0857	1.14	1
11031	12378-PeCDF	57117-41-6	0.193	JB	0.0286	5.71	1
11031	23478-PeCDF	57117-31-4	0.531	JB	0.0307	5.71	1
11031	123478-HxCDF	70648-26-9	2.08	JB	0.0841	5.71	1
11031	123678-HxCDF	57117-44-9	0.203	JBQ	0.0559	5.71	1
11031	123789-HxCDF	72918-21-9	0.277	JB	0.0376	5.71	1
11031	234678-HxCDF	60851-34-5	0.258	JB	0.0310	5.71	1
11031	1234678-HpCDF	67562-39-4	1.64	JB	0.0358	5.71	1
11031	1234789-HpCDF	55673-89-7	0.196	JB	0.0297	5.71	1
11031	OCDF	39001-02-0	2.55	JB	0.0296	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8N-SS-0.0-0.5

LLI Sample # SW 6255811
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 12:55

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD010 SDG#: DX068-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/26/2011 16:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.18	1
11031	12378-PeCDD	40321-76-4	0.204	JB	0.0364	5.90	1
11031	123478-HxCDD	39227-28-6	0.294	JBQ	0.0668	5.90	1
11031	123678-HxCDD	57653-85-7	1.25	JB	0.0645	5.90	1
11031	123789-HxCDD	19408-74-3	0.770	JB	0.0512	5.90	1
11031	1234678-HpCDD	35822-46-9	26.0	B	0.0738	5.90	1
11031	OCDD	3268-87-9	267	B	0.0668	11.8	1
11031	2378-TCDF	51207-31-9	2.34	B	0.230	1.18	1
11650	2378-TCDF-Conf	51207-31-9	1.02	J	0.0469	1.18	1
11031	12378-PeCDF	57117-41-6	0.322	JB	0.0645	5.90	1
11031	23478-PeCDF	57117-31-4	1.02	JB	0.0684	5.90	1
11031	123478-HxCDF	70648-26-9	3.51	JB	0.121	5.90	1
11031	123678-HxCDF	57117-44-9	0.416	JB	0.0857	5.90	1
11031	123789-HxCDF	72918-21-9	0.311	JBQ	0.0666	5.90	1
11031	234678-HxCDF	60851-34-5	0.412	JB	0.0473	5.90	1
11031	1234678-HpCDF	67562-39-4	3.62	JB	0.0512	5.90	1
11031	1234789-HpCDF	55673-89-7	0.284	JB	0.0456	5.90	1
11031	OCDF	39001-02-0	9.14	JB	0.0449	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-2378-TCDF-Conf	60	24 - 169
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8N-SS-0.0-0.5

LLI Sample # SW 6255812
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:10

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD011 SDG#: DX068-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11111001	04/26/2011 17:29	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11111001	04/29/2011 10:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11111001	04/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0327	JBQ	0.0174	1.15	1
11031	12378-PeCDD	40321-76-4	0.246	JB	0.0518	5.74	1
11031	123478-HxCDD	39227-28-6	0.425	JB	0.0725	5.74	1
11031	123678-HxCDD	57653-85-7	2.14	JB	0.0734	5.74	1
11031	123789-HxCDD	19408-74-3	0.863	JB	0.0710	5.74	1
11031	1234678-HpCDD	35822-46-9	61.6	B	0.0977	5.74	1
11031	OCDD	3268-87-9	672	B	0.0811	11.5	1
11031	2378-TCDF	51207-31-9	0.476	JB	0.0839	1.15	1
11031	12378-PeCDF	57117-41-6	0.238	JB	0.0430	5.74	1
11031	23478-PeCDF	57117-31-4	0.761	JB	0.0427	5.74	1
11031	123478-HxCDF	70648-26-9	2.22	JB	0.0669	5.74	1
11031	123678-HxCDF	57117-44-9	0.557	JB	0.0606	5.74	1
11031	123789-HxCDF	72918-21-9	0.363	JB	0.0652	5.74	1
11031	234678-HxCDF	60851-34-5	0.701	JB	0.0571	5.74	1
11031	1234678-HpCDF	67562-39-4	7.59	B	0.0425	5.74	1
11031	1234789-HpCDF	55673-89-7	0.542	JB	0.0505	5.74	1
11031	OCDF	39001-02-0	11.3	JB	0.0377	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255813
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 19:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4	B	0.0259	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.0729	5.75	1
11031	123478-HxCDD	39227-28-6	120	B	0.0597	5.75	1
11031	123678-HxCDD	57653-85-7	119	B	0.0619	5.75	1
11031	123789-HxCDD	19408-74-3	117	B	0.0611	5.75	1
11031	1234678-HpCDD	35822-46-9	175	B	0.110	5.75	1
11031	OCDD	3268-87-9	828	B	0.0704	11.5	1
11031	2378-TCDF	51207-31-9	23.3	B	0.0777	1.15	1
11031	12378-PeCDF	57117-41-6	115	B	0.0472	5.75	1
11031	23478-PeCDF	57117-31-4	115	B	0.0472	5.75	1
11031	123478-HxCDF	70648-26-9	118	B	0.0652	5.75	1
11031	123678-HxCDF	57117-44-9	115	B	0.0624	5.75	1
11031	123789-HxCDF	72918-21-9	115	B	0.0696	5.75	1
11031	234678-HxCDF	60851-34-5	117	B	0.0602	5.75	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0513	5.75	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0624	5.75	1
11031	OCDF	39001-02-0	256	B	0.0524	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-013-SA8N-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255814
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 20:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.5	B	0.0298	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.0505	5.77	1
11031	123478-HxCDD	39227-28-6	119	B	0.0618	5.77	1
11031	123678-HxCDD	57653-85-7	119	B	0.0618	5.77	1
11031	123789-HxCDD	19408-74-3	117	B	0.0618	5.77	1
11031	1234678-HpCDD	35822-46-9	152	B	0.0916	5.77	1
11031	OCDD	3268-87-9	570	B	0.0740	11.5	1
11031	2378-TCDF	51207-31-9	23.7	B	0.0703	1.15	1
11031	12378-PeCDF	57117-41-6	117	B	0.0468	5.77	1
11031	23478-PeCDF	57117-31-4	118	B	0.0465	5.77	1
11031	123478-HxCDF	70648-26-9	117	B	0.0679	5.77	1
11031	123678-HxCDF	57117-44-9	115	B	0.0642	5.77	1
11031	123789-HxCDF	72918-21-9	116	B	0.0733	5.77	1
11031	234678-HxCDF	60851-34-5	119	B	0.0617	5.77	1
11031	1234678-HpCDF	67562-39-4	122	B	0.0604	5.77	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0812	5.77	1
11031	OCDF	39001-02-0	252	B	0.0582	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8N-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8N-SS-0.0-0.5

LLI Sample # SW 6255815
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:00

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX068-13MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 21:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217 JBQ	0.0115	1.14	1
11031	12378-PeCDD	40321-76-4	0.0775 JB	0.0137	5.68	1
11031	123478-HxCDD	39227-28-6	0.0699 JBQ	0.0195	5.68	1
11031	123678-HxCDD	57653-85-7	0.132 JB	0.0207	5.68	1
11031	123789-HxCDD	19408-74-3	0.124 JBQ	0.0200	5.68	1
11031	1234678-HpCDD	35822-46-9	1.69 JB	0.0301	5.68	1
11031	OCDD	3268-87-9	11.2 JB	0.0259	11.4	1
11031	2378-TCDF	51207-31-9	0.0809 JB	0.0180	1.14	1
11031	12378-PeCDF	57117-41-6	0.0723 JB	0.0103	5.68	1
11031	23478-PeCDF	57117-31-4	0.170 JB	0.0117	5.68	1
11031	123478-HxCDF	70648-26-9	0.170 JB	0.0164	5.68	1
11031	123678-HxCDF	57117-44-9	0.0666 JB	0.0137	5.68	1
11031	123789-HxCDF	72918-21-9	0.116 JB	0.0187	5.68	1
11031	234678-HxCDF	60851-34-5	0.131 JB	0.0142	5.68	1
11031	1234678-HpCDF	67562-39-4	0.334 JB	0.0117	5.68	1
11031	1234789-HpCDF	55673-89-7	0.115 JB	0.0222	5.68	1
11031	OCDF	39001-02-0	0.563 JBQ	0.0282	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8N-SS-0.0-0.5

LLI Sample # SW 6255816
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:30

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD014 SDG#: DX068-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11118002	05/03/2011 22:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11118002	04/29/2011 10:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265	U	0.0265	1.09	1
11031	12378-PeCDD	40321-76-4	0.215	JB	0.0328	5.45	1
11031	123478-HxCDD	39227-28-6	0.181	J	0.0314	5.45	1
11031	123678-HxCDD	57653-85-7	0.615	JB	0.0298	5.45	1
11031	123789-HxCDD	19408-74-3	0.459	JB	0.0251	5.45	1
11031	1234678-HpCDD	35822-46-9	6.43	B	0.0309	5.45	1
11031	OCDD	3268-87-9	53.4	B	0.0230	10.9	1
11031	2378-TCDF	51207-31-9	0.588	J	0.0638	1.09	1
11031	12378-PeCDF	57117-41-6	0.235	JBQ	0.0246	5.45	1
11031	23478-PeCDF	57117-31-4	1.13	JB	0.0265	5.45	1
11031	123478-HxCDF	70648-26-9	0.956	JB	0.0449	5.45	1
11031	123678-HxCDF	57117-44-9	0.346	JB	0.0321	5.45	1
11031	123789-HxCDF	72918-21-9	0.250	JB	0.0210	5.45	1
11031	234678-HxCDF	60851-34-5	0.473	JB	0.0200	5.45	1
11031	1234678-HpCDF	67562-39-4	1.45	JB	0.0209	5.45	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0156	5.45	1
11031	OCDF	39001-02-0	2.89	JB	0.0214	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	109	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	94	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8N-SS-0.0-0.5

LLI Sample # SW 6255817
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 14:50

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX068-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/17/2011 07:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11109162401B	04/19/2011 19:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0233	U	0.0233	1.07	1
11031	12378-PeCDD	40321-76-4	0.0883	JBQ	0.0289	5.36	1
11031	123478-HxCDD	39227-28-6	0.108	J	0.0276	5.36	1
11031	123678-HxCDD	57653-85-7	0.176	JB	0.0262	5.36	1
11031	123789-HxCDD	19408-74-3	0.176	JB	0.0223	5.36	1
11031	1234678-HpCDD	35822-46-9	3.03	JB	0.0268	5.36	1
11031	OCDD	3268-87-9	32.0	B	0.0256	10.7	1
11031	2378-TCDF	51207-31-9	0.216	J	0.0426	1.07	1
11031	12378-PeCDF	57117-41-6	0.0194	U	0.0194	5.36	1
11031	23478-PeCDF	57117-31-4	0.240	JB	0.0204	5.36	1
11031	123478-HxCDF	70648-26-9	0.527	JB	0.0399	5.36	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0291	5.36	1
11031	123789-HxCDF	72918-21-9	0.0944	JBQ	0.0168	5.36	1
11031	234678-HxCDF	60851-34-5	0.0850	JB	0.0165	5.36	1
11031	1234678-HpCDF	67562-39-4	0.688	JB	0.0258	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0886	JBQ	0.0178	5.36	1
11031	OCDF	39001-02-0	2.30	JB	0.0259	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	47	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA8N-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA8N-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA8N-SS-0.0-0.5

LLI Sample # SW 6255818
LLI Group # 1241643
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/11/2011 13:20

Submitted: 04/12/2011 10:20
Reported: 05/13/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD049 SDG#: DX068-16*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11103001	04/17/2011 08:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11103001	04/13/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11126162401A	05/06/2011 19:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11109162401B	Sample number(s): 6255801-6255804,6255808-6255809,6255813-6255817								
Moisture Content by 160.3					100		80-120		
Batch number: 11126162401A	Sample number(s): 6255805-6255807,6255810-6255812,6255818								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11103001	Sample number(s): 6255801-6255802,6255817-6255818								
2378-TCDD	0.0296 U	0.0296	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0576 J	0.0308	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0271 U	0.0271	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0356 J	0.0243	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.206 J	0.0255	5.00	ng/kg	102		70-140		
OCDD	0.626 J	0.0217	10.0	ng/kg	101		78-144		
2378-TCDF	0.0299 U	0.0299	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0410 J	0.0146	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0825 J	0.0150	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0963 J	0.0385	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0678 J	0.0256	5.00	ng/kg	104		84-130		
123789-HxCDF	0.0928 J	0.0153	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0800 J	0.0128	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.261 J	0.0186	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0607 J	0.0110	5.00	ng/kg	101		78-138		
OCDF	0.185 J	0.0260	10.0	ng/kg	100		63-170		
Batch number: 11111001	Sample number(s): 6255811-6255812								
2378-TCDD	0.0407 J	0.0150	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0378 J	0.0115	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0291 J	0.0102	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0354 J	0.0100	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0670 J	0.00980	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.214 J	0.0159	5.00	ng/kg	106		70-140		
OCDD	0.583 J	0.0220	10.0	ng/kg	107		78-144		
2378-TCDF	0.0156 J	0.0116	1.00	ng/kg	121		75-158		
2378-TCDF-Conf	0.0308 U	0.0308	1.00	ng/kg					
12378-PeCDF	0.0460 J	0.00670	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0785 J	0.00700	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0546 J	0.0159	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0424 J	0.0103	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0880 J	0.0135	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0497 J	0.00810	5.00	ng/kg	109		70-156		
1234678-HpCDF	0.123 J	0.0112	5.00	ng/kg	105		82-122		
1234789-HpCDF	0.0603 J	0.0157	5.00	ng/kg	108		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.155	J	0.0232	10.0	ng/kg	110		63-170		
Batch number: 11118002	Sample number(s): 6255803-6255810,6255813-6255816									
2378-TCDD	0.155	J	0.0203	1.00	ng/kg	102		67-158		
12378-PeCDD	0.603	J	0.0251	5.00	ng/kg	102		70-142		
123478-HxCDD	0.301	J	0.0181	5.00	ng/kg	100		70-164		
123678-HxCDD	0.282	J	0.0186	5.00	ng/kg	101		76-134		
123789-HxCDD	0.266	J	0.0171	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.297	J	0.0169	5.00	ng/kg	99		70-140		
OCDD	0.436	J	0.0192	10.0	ng/kg	97		78-144		
2378-TCDF	0.160	J	0.0190	1.00	ng/kg	106		75-158		
2378-TCDF-Conf	0.188	J	0.0454	1.00	ng/kg					
12378-PeCDF	0.683	J	0.0116	5.00	ng/kg	97		80-134		
23478-PeCDF	0.570	J	0.0112	5.00	ng/kg	96		68-160		
123478-HxCDF	0.388	J	0.0207	5.00	ng/kg	93		72-134		
123678-HxCDF	0.383	J	0.0181	5.00	ng/kg	97		84-130		
123789-HxCDF	0.292	J	0.0130	5.00	ng/kg	95		78-130		
234678-HxCDF	0.306	J	0.0126	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.265	J	0.00910	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.143	J	0.0100	5.00	ng/kg	98		78-138		
OCDF	0.269	J	0.0207	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11109162401B	Sample number(s): 6255801-6255804,6255808-6255809,6255813-6255817 BKG: P255794								
Moisture Content by 160.3						13.9	14.9	7	20
Batch number: 11126162401A	Sample number(s): 6255805-6255807,6255810-6255812,6255818 BKG: P255761								
Moisture Content by 160.3						15.3	14.3	6	20
Batch number: 11118002	Sample number(s): 6255803-6255810,6255813-6255816 UNSPK: 6255813								
2378-TCDD	97	97	67-158	1	25				
12378-PeCDD	102	101	70-142	0	25				
123478-HxCDD	104	103	70-164	1	25				
123678-HxCDD	102	102	76-134	0	25				
123789-HxCDD	101	100	64-162	0	25				
1234678-HpCDD	99	78	70-140	14	25				
OCDD	68*	-43*	78-144	37*	25				
2378-TCDF	99	101	75-158	2	25				
12378-PeCDF	99	101	80-134	2	25				
23478-PeCDF	100	101	68-160	2	25				
123478-HxCDF	101	99	72-134	1	25				
123678-HxCDF	99	99	84-130	0	25				
123789-HxCDF	100	100	78-130	1	25				
234678-HxCDF	101	102	70-156	1	25				
1234678-HpCDF	101	99	82-122	2	25				
1234789-HpCDF	102	102	78-138	1	25				
OCDF	106	104	63-170	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11103001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255801	80	80	41	55	78	86
6255802	76	73	42	56	71	73
6255817	90	87	41	56	90	102
6255818	84	75	34	47	78	86
Blank	83	72	28	39	78	80
OPR	77	66	23	33	71	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255801	56	88	92	90	82	76
6255802	60	72	77	91	78	71
6255817	61	96	94	102	92	86
6255818	47	78	70	93	80	69
Blank	41	82	76	98	79	61
OPR	35	76	70	86	74	52
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255801	79	83	90	98	80	84
6255802	75	81	80	88	73	81
6255817	91	109	99	107	90	99
6255818	80	89	84	81	81	85
Blank	72	85	86	90	75	79
OPR	62	76	79	84	69	74
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11111001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255811	74	71	28	41	75	68
6255812	67	66	27	38	70	56
Blank	70	71	40	60	75	51
OPR	63	63	27	45	66	47
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255811	45	64	57	86	77	63

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

6255812	40	54	42	76	71	57
Blank	68	56	49	99	83	80
OPR	53	48	41	87	75	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255811	72	79	74	70	72	80
6255812	63	75	65	59	66	73
Blank	83	84	79	72	66	83
OPR	75	77	75	67	57	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6255811	
6255812	60
Blank	68
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11118002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6255803	75	73	67	74	69	66
6255804	78	75	70	75	77	70
6255805	82	76	71	76	72	64
6255806	79	75	67	72	71	68
6255807	72	76	69	73	72	71
6255808	74	73	68	74	70	74
6255809	86	85	79	89	87	81
6255810	74	72	70	72	76	77
6255813	84	82	73	77	81	80
6255814	86	83	80	82	85	82
6255815	82	81	78	81	82	78
6255816	74	69	63	74	71	60
Blank	69	72	42	47	69	73
MS	86	83	80	82	85	82
MSD	82	81	78	81	82	78
OPR	71	69	44	48	68	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6255803	73	59	47	90	77	76
6255804	79	61	50	90	77	91
6255805	76	58	48	94	82	82
6255806	79	63	53	86	80	80
6255807	81	65	55	91	81	82
6255808	84	66	60	88	78	80
6255809	106	76	70	100	91	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1241643
Reported: 05/13/11 at 01:15 PM

Surrogate Quality Control

6255810	78	72	68	79	75	82
6255813	81	76	70	90	84	86
6255814	86	79	74	91	86	90
6255815	85	74	69	91	85	90
6255816	90	54	46	85	77	84
Blank	63	69	64	91	76	72
MS	86	79	74	91	86	90
MSD	85	74	69	91	85	90
OPR	58	60	50	89	72	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6255803	78	77	73	61	72	85
6255804	95	91	77	65	77	84
6255805	82	78	72	62	79	93
6255806	82	79	80	72	75	86
6255807	83	81	80	72	73	87
6255808	78	79	82	80	73	85
6255809	94	94	92	90	81	98
6255810	83	79	77	75	72	78
6255813	84	84	83	78	81	87
6255814	91	88	85	82	81	88
6255815	88	87	82	79	79	87
6255816	79	78	74	70	68	83
Blank	72	77	83	82	66	76
MS	91	88	85	82	81	88
MSD	88	87	82	79	79	87
OPR	69	80	75	68	69	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6255803	
6255804	
6255805	
6255806	70
6255807	
6255808	
6255809	
6255810	
6255813	
6255814	
6255815	
6255816	
Blank	64
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1241643 6255801-18

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
DUP01-SA8N-QC-041111	04.11.11	1400	SOIL	NONE	1 SS sleeve			X	X															
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-001-SA8N-SS-0.0-0.5	04.11.11	0915	SOIL	NONE	1 SS sleeve			X	X															
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X								X		
SL-002-SA8N-SS-0.0-0.5	04.11.11	0930	SOIL	NONE	1 SS sleeve			X	X															
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-003-SA8N-SS-0.0-0.5	04.11.11	0940	SOIL	NONE	1 SS sleeve			X	X															
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-004-SA8N-SS-0.0-0.5	04.11.11	0955	SOIL	NONE	1 SS sleeve			X	X															
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-005-SA8N-SS-0.0-0.5	04.11.11	1010	SOIL	NONE	1 SS sleeve			X	X															
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-006-SA8N-SS-0.0-0.5	04.11.11	1025	SOIL	NONE	1 SS sleeve			X	X															
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-007-SA8N-SS-0.0-0.5	04.11.11	1040	SOIL	NONE	1 SS sleeve			X	X															
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X									X		
SL-008-SA8N-SS-0.0-0.5	04.11.11	1100	SOIL	NONE	1 SS sleeve			X	X															
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X						X			X		
SL-009-SA8N-SS-0.0-0.5	04.11.11	1245	SOIL	NONE	1 SS sleeve			X	X															
SL-010-SA8N-SS-0.0-0.5	04.11.11	1255	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-010-SA8N-SS-0.0-0.5	04.11.11	1256	SOIL	NONE	1 SS sleeve			X	X															
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-011-SA8N-SS-0.0-0.5	04.11.11	1310	SOIL	NONE	1 SS sleeve			X	X															
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	4-16 oz jars	X	X			X	X	X	X									X		MS/MSD
SL-013-SA8N-SS-0.0-0.5MS	04.11.11	1400	SOIL	NONE	2 SS sleeves			X	X															MS/MSD

Relinquished by: (*Signature*)	Date/Time 04/11/2011 / 1700	Received for Laboratory by: (*Signature*) Gary Yuhl 4/12/11 1020	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s) 8695 1432 3596; 8596 1432 3600 8695 1432 3611; 8596 1432 3780	

13013

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Stacy Britch																								
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																			
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X									X		
SL-014-SA8N-SS-0.0-0.5	04.11.11	1430	SOIL	NONE	1 SS sleeve			X	X															
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X									X		
SL-017-SA8N-SS-0.0-0.5	4.11.11	1450	SOIL	NONE	1 SS sleeve			X	X															
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
SL-049-SA8N-SS-0.0-0.5	4.11.11	1320	SOIL	NONE	1 SS sleeve			X	X															
Relinquished by: (Signature)	Date/Time 04/11/2011 / 1700		Received for Laboratory by: (Signature)																					Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8695 1432 3596; 8695 1432 3600																					

4/12/11/1020

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269115
SDG: DX147
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423873
SL-003-SA8S-SS-0.0-0.5 Soil	6423874
SL-003-SA8S-SS-0.0-0.5MS Soil	6423875
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423876
SL-005-SA8S-SS-0.0-0.5 Soil	6423877
SL-007-SA8S-SS-0.0-0.5 Soil	6423878
SL-013-SA8S-SS-0.0-0.5 Soil	6423879
SL-014-SA8S-SS-0.0-0.5 Soil	6423880
SL-015-SA8S-SS-0.0-0.5 Soil	6423881
SL-024-SA8S-SS-0.0-0.5 Soil	6423882
DUP01-SA8S-QC-092911 Soil	6423883
SL-126-SA7-SB-4.0-5.0 Soil	6423884
SL-127-SA7-SB-4.0-5.0 Soil	6423885
SL-177-SA7-SB-3.0-4.0 Soil	6423886

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.06	1
11031	12378-PeCDD	40321-76-4	0.0599	J	0.0362	5.28	1
11031	123478-HxCDD	39227-28-6	0.0733	J	0.0329	5.28	1
11031	123678-HxCDD	57653-85-7	0.152	JB	0.0326	5.28	1
11031	123789-HxCDD	19408-74-3	0.125	JB	0.0347	5.28	1
11031	1234678-HpCDD	35822-46-9	2.77	JB	0.0590	5.28	1
11031	OCDD	3268-87-9	19.3	B	0.0762	10.6	1
11031	2378-TCDF	51207-31-9	0.179	JB	0.0436	1.06	1
11031	12378-PeCDF	57117-41-6	0.0941	JBQ	0.0250	5.28	1
11031	23478-PeCDF	57117-31-4	0.381	JB	0.0263	5.28	1
11031	123478-HxCDF	70648-26-9	0.288	JQ	0.0388	5.28	1
11031	123678-HxCDF	57117-44-9	0.133	JBQ	0.0311	5.28	1
11031	123789-HxCDF	72918-21-9	0.0547	JBQ	0.0320	5.28	1
11031	234678-HxCDF	60851-34-5	0.203	JB	0.0242	5.28	1
11031	1234678-HpCDF	67562-39-4	0.592	JB	0.0323	5.28	1
11031	1234789-HpCDF	55673-89-7	0.118	JBQ	0.0499	5.28	1
11031	OCDF	39001-02-0	1.15	JB	0.0920	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 13:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	U	0.0329	1.02	1
11031	12378-PeCDD	40321-76-4	0.0765	J	0.0313	5.09	1
11031	123478-HxCDD	39227-28-6	0.0692	JQ	0.0320	5.09	1
11031	123678-HxCDD	57653-85-7	0.165	JB	0.0345	5.09	1
11031	123789-HxCDD	19408-74-3	0.163	JBQ	0.0290	5.09	1
11031	1234678-HpCDD	35822-46-9	2.71	JB	0.0405	5.09	1
11031	OCDD	3268-87-9	18.7	B	0.0407	10.2	1
11031	2378-TCDF	51207-31-9	0.196	JB	0.0375	1.02	1
11031	12378-PeCDF	57117-41-6	0.0217	U	0.0217	5.09	1
11031	23478-PeCDF	57117-31-4	0.317	JB	0.0220	5.09	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0352	5.09	1
11031	123678-HxCDF	57117-44-9	0.113	JBQ	0.0268	5.09	1
11031	123789-HxCDF	72918-21-9	0.0252	U	0.0252	5.09	1
11031	234678-HxCDF	60851-34-5	0.150	JB	0.0209	5.09	1
11031	1234678-HpCDF	67562-39-4	0.574	JB	0.0211	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0457	JB	0.0282	5.09	1
11031	OCDF	39001-02-0	0.882	JB	0.0464	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 14:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.2	B	0.0509	1.01	1
11031	12378-PeCDD	40321-76-4	104		0.0575	5.04	1
11031	123478-HxCDD	39227-28-6	105		0.0609	5.04	1
11031	123678-HxCDD	57653-85-7	101	B	0.0607	5.04	1
11031	123789-HxCDD	19408-74-3	102	B	0.0598	5.04	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0721	5.04	1
11031	OCDD	3268-87-9	227	B	0.0818	10.1	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0568	1.01	1
11031	12378-PeCDF	57117-41-6	102	B	0.0363	5.04	1
11031	23478-PeCDF	57117-31-4	99.6	B	0.0369	5.04	1
11031	123478-HxCDF	70648-26-9	96.9		0.113	5.04	1
11031	123678-HxCDF	57117-44-9	99.3	B	0.0879	5.04	1
11031	123789-HxCDF	72918-21-9	101	B	0.0777	5.04	1
11031	234678-HxCDF	60851-34-5	101	B	0.0666	5.04	1
11031	1234678-HpCDF	67562-39-4	98.7	B	0.0736	5.04	1
11031	1234789-HpCDF	55673-89-7	101	B	0.105	5.04	1
11031	OCDF	39001-02-0	207	B	0.0905	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 18:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.9	B	0.0570	0.996	1
11031	12378-PeCDD	40321-76-4	104		0.0531	4.98	1
11031	123478-HxCDD	39227-28-6	103		0.0592	4.98	1
11031	123678-HxCDD	57653-85-7	98.8	B	0.0654	4.98	1
11031	123789-HxCDD	19408-74-3	99.7	B	0.0609	4.98	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0664	4.98	1
11031	OCDD	3268-87-9	216	B	0.0637	9.96	1
11031	2378-TCDF	51207-31-9	20.0	B	0.0551	0.996	1
11031	12378-PeCDF	57117-41-6	100	B	0.0368	4.98	1
11031	23478-PeCDF	57117-31-4	98.5	B	0.0364	4.98	1
11031	123478-HxCDF	70648-26-9	99.6		0.106	4.98	1
11031	123678-HxCDF	57117-44-9	98.5	B	0.0920	4.98	1
11031	123789-HxCDF	72918-21-9	100	B	0.0885	4.98	1
11031	234678-HxCDF	60851-34-5	100	B	0.0785	4.98	1
11031	1234678-HpCDF	67562-39-4	97.7	B	0.0576	4.98	1
11031	1234789-HpCDF	55673-89-7	99.5	B	0.0768	4.98	1
11031	OCDF	39001-02-0	201	B	0.0685	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 19:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367 U	0.0367	1.02	1
11031	12378-PeCDD	40321-76-4	0.0587 JQ	0.0286	5.09	1
11031	123478-HxCDD	39227-28-6	0.0315 J	0.0252	5.09	1
11031	123678-HxCDD	57653-85-7	0.0811 JBQ	0.0273	5.09	1
11031	123789-HxCDD	19408-74-3	0.0560 JB	0.0238	5.09	1
11031	1234678-HpCDD	35822-46-9	0.781 JB	0.0297	5.09	1
11031	OCDD	3268-87-9	5.28 JB	0.0248	10.2	1
11031	2378-TCDF	51207-31-9	0.0324 U	0.0324	1.02	1
11031	12378-PeCDF	57117-41-6	0.0389 JB	0.0198	5.09	1
11031	23478-PeCDF	57117-31-4	0.0720 JBQ	0.0189	5.09	1
11031	123478-HxCDF	70648-26-9	0.0398 JQ	0.0348	5.09	1
11031	123678-HxCDF	57117-44-9	0.0340 JB	0.0326	5.09	1
11031	123789-HxCDF	72918-21-9	0.0374 JBQ	0.0192	5.09	1
11031	234678-HxCDF	60851-34-5	0.0512 JB	0.0162	5.09	1
11031	1234678-HpCDF	67562-39-4	0.151 JB	0.0191	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0559 JB	0.0189	5.09	1
11031	OCDF	39001-02-0	0.353 JB	0.0407	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	31	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0363	U	0.0363	1.03	1
11031	12378-PeCDD	40321-76-4	0.0474	JQ	0.0270	5.14	1
11031	123478-HxCDD	39227-28-6	0.0397	JQ	0.0280	5.14	1
11031	123678-HxCDD	57653-85-7	0.119	JB	0.0270	5.14	1
11031	123789-HxCDD	19408-74-3	0.118	JBQ	0.0273	5.14	1
11031	1234678-HpCDD	35822-46-9	2.29	JB	0.0341	5.14	1
11031	OCDD	3268-87-9	30.0	B	0.0315	10.3	1
11031	2378-TCDF	51207-31-9	0.0545	JB	0.0312	1.03	1
11031	12378-PeCDF	57117-41-6	0.0178	U	0.0178	5.14	1
11031	23478-PeCDF	57117-31-4	0.0428	JBQ	0.0171	5.14	1
11031	123478-HxCDF	70648-26-9	0.0598	JQ	0.0255	5.14	1
11031	123678-HxCDF	57117-44-9	0.0674	JB	0.0227	5.14	1
11031	123789-HxCDF	72918-21-9	0.0505	JBQ	0.0178	5.14	1
11031	234678-HxCDF	60851-34-5	0.0823	JBQ	0.0153	5.14	1
11031	1234678-HpCDF	67562-39-4	0.474	JB	0.0190	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0508	JB	0.0211	5.14	1
11031	OCDF	39001-02-0	0.884	JB	0.0379	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342	U	0.0342	1.03	1
11031	12378-PeCDD	40321-76-4	0.188	J	0.0333	5.14	1
11031	123478-HxCDD	39227-28-6	0.224	J	0.0317	5.14	1
11031	123678-HxCDD	57653-85-7	0.253	JB	0.0310	5.14	1
11031	123789-HxCDD	19408-74-3	0.289	JB	0.0323	5.14	1
11031	1234678-HpCDD	35822-46-9	2.17	JB	0.0342	5.14	1
11031	OCDD	3268-87-9	14.2	B	0.0314	10.3	1
11031	2378-TCDF	51207-31-9	0.183	JB	0.0618	1.03	1
11031	12378-PeCDF	57117-41-6	0.268	JBQ	0.0288	5.14	1
11031	23478-PeCDF	57117-31-4	0.601	JB	0.0291	5.14	1
11031	123478-HxCDF	70648-26-9	0.438	J	0.0445	5.14	1
11031	123678-HxCDF	57117-44-9	0.372	JBQ	0.0382	5.14	1
11031	123789-HxCDF	72918-21-9	0.222	JBQ	0.0314	5.14	1
11031	234678-HxCDF	60851-34-5	0.311	JB	0.0265	5.14	1
11031	1234678-HpCDF	67562-39-4	0.756	JB	0.0242	5.14	1
11031	1234789-HpCDF	55673-89-7	0.211	JBQ	0.0263	5.14	1
11031	OCDF	39001-02-0	1.27	JB	0.0324	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 21:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	U	0.0317	1.04	1
11031	12378-PeCDD	40321-76-4	0.164	J	0.0295	5.20	1
11031	123478-HxCDD	39227-28-6	0.194	J	0.0411	5.20	1
11031	123678-HxCDD	57653-85-7	0.247	JB	0.0443	5.20	1
11031	123789-HxCDD	19408-74-3	0.210	JBQ	0.0377	5.20	1
11031	1234678-HpCDD	35822-46-9	6.20	B	0.0420	5.20	1
11031	OCDD	3268-87-9	64.7	B	0.0439	10.4	1
11031	2378-TCDF	51207-31-9	0.0992	JB	0.0421	1.04	1
11031	12378-PeCDF	57117-41-6	0.220	JB	0.0239	5.20	1
11031	23478-PeCDF	57117-31-4	0.409	JB	0.0245	5.20	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0344	5.20	1
11031	123678-HxCDF	57117-44-9	0.172	JB	0.0266	5.20	1
11031	123789-HxCDF	72918-21-9	0.0228	U	0.0228	5.20	1
11031	234678-HxCDF	60851-34-5	0.184	JB	0.0193	5.20	1
11031	1234678-HpCDF	67562-39-4	0.690	JB	0.0225	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0761	JBQ	0.0259	5.20	1
11031	OCDF	39001-02-0	1.33	JB	0.0312	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 22:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0310	U	0.0310	1.03	1
11031	12378-PeCDD	40321-76-4	0.0439	JB	0.0285	5.14	1
11031	123478-HxCDD	39227-28-6	0.0940	JBQ	0.0360	5.14	1
11031	123678-HxCDD	57653-85-7	0.169	JBQ	0.0345	5.14	1
11031	123789-HxCDD	19408-74-3	0.0999	JB	0.0333	5.14	1
11031	1234678-HpCDD	35822-46-9	5.08	JB	0.0435	5.14	1
11031	OCDD	3268-87-9	86.6	B	0.0477	10.3	1
11031	2378-TCDF	51207-31-9	0.0580	JQ	0.0372	1.03	1
11031	12378-PeCDF	57117-41-6	0.0687	JB	0.0184	5.14	1
11031	23478-PeCDF	57117-31-4	0.220	JBQ	0.0185	5.14	1
11031	123478-HxCDF	70648-26-9	0.189	JBQ	0.0463	5.14	1
11031	123678-HxCDF	57117-44-9	0.129	JBQ	0.0412	5.14	1
11031	123789-HxCDF	72918-21-9	0.0687	JQ	0.0240	5.14	1
11031	234678-HxCDF	60851-34-5	0.178	JB	0.0190	5.14	1
11031	1234678-HpCDF	67562-39-4	0.862	JB	0.0254	5.14	1
11031	1234789-HpCDF	55673-89-7	0.108	JB	0.0244	5.14	1
11031	OCDF	39001-02-0	0.875	JB	0.0367	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 03:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482 JQ	0.0321	1.00	1
11031	12378-PeCDD	40321-76-4	0.0493 JBQ	0.0288	5.00	1
11031	123478-HxCDD	39227-28-6	0.137 JBQ	0.0388	5.00	1
11031	123678-HxCDD	57653-85-7	0.225 JB	0.0417	5.00	1
11031	123789-HxCDD	19408-74-3	0.183 JBQ	0.0314	5.00	1
11031	1234678-HpCDD	35822-46-9	3.94 JB	0.0303	5.00	1
11031	OCDD	3268-87-9	27.7 B	0.0323	10.0	1
11031	2378-TCDF	51207-31-9	0.282 J	0.0531	1.00	1
11031	12378-PeCDF	57117-41-6	0.190 JB	0.0273	5.00	1
11031	23478-PeCDF	57117-31-4	0.0436 JBQ	0.0256	5.00	1
11031	123478-HxCDF	70648-26-9	0.179 JBQ	0.0242	5.00	1
11031	123678-HxCDF	57117-44-9	0.138 JB	0.0222	5.00	1
11031	123789-HxCDF	72918-21-9	0.0642 JQ	0.0265	5.00	1
11031	234678-HxCDF	60851-34-5	0.190 JBQ	0.0224	5.00	1
11031	1234678-HpCDF	67562-39-4	0.772 JB	0.0181	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0874 JBQ	0.0267	5.00	1
11031	OCDF	39001-02-0	1.26 JB	0.0253	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 04:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.03	1
11031	12378-PeCDD	40321-76-4	0.0846	JQ	0.0258	5.15	1
11031	123478-HxCDD	39227-28-6	0.0704	JQ	0.0271	5.15	1
11031	123678-HxCDD	57653-85-7	0.193	JB	0.0260	5.15	1
11031	123789-HxCDD	19408-74-3	0.138	JB	0.0256	5.15	1
11031	1234678-HpCDD	35822-46-9	3.04	JB	0.0303	5.15	1
11031	OCDD	3268-87-9	27.5	B	0.0265	10.3	1
11031	2378-TCDF	51207-31-9	0.265	JB	0.0349	1.03	1
11031	12378-PeCDF	57117-41-6	0.0763	JB	0.0215	5.15	1
11031	23478-PeCDF	57117-31-4	0.233	JB	0.0220	5.15	1
11031	123478-HxCDF	70648-26-9	0.361	J	0.0281	5.15	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0233	5.15	1
11031	123789-HxCDF	72918-21-9	0.0609	JB	0.0205	5.15	1
11031	234678-HxCDF	60851-34-5	0.149	JB	0.0186	5.15	1
11031	1234678-HpCDF	67562-39-4	0.615	JBQ	0.0183	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0624	JBQ	0.0245	5.15	1
11031	OCDF	39001-02-0	1.00	JB	0.0284	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0347	U	0.0347	1.07	1
11031	12378-PeCDD	40321-76-4	0.0266	U	0.0266	5.35	1
11031	123478-HxCDD	39227-28-6	0.0226	U	0.0226	5.35	1
11031	123678-HxCDD	57653-85-7	0.124	JB	0.0231	5.35	1
11031	123789-HxCDD	19408-74-3	0.234	JB	0.0209	5.35	1
11031	1234678-HpCDD	35822-46-9	0.211	JBQ	0.0217	5.35	1
11031	OCDD	3268-87-9	0.577	JB	0.0193	10.7	1
11031	2378-TCDF	51207-31-9	0.0249	U	0.0249	1.07	1
11031	12378-PeCDF	57117-41-6	0.0429	JB	0.0155	5.35	1
11031	23478-PeCDF	57117-31-4	0.0412	JB	0.0145	5.35	1
11031	123478-HxCDF	70648-26-9	0.0232	U	0.0232	5.35	1
11031	123678-HxCDF	57117-44-9	0.0200	U	0.0200	5.35	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0136	5.35	1
11031	234678-HxCDF	60851-34-5	0.0159	JB	0.0120	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0901	JBQ	0.0170	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0193	JB	0.0156	5.35	1
11031	OCDF	39001-02-0	0.124	JBQ	0.0278	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 02:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177 U	0.0177	1.02	1
11031	12378-PeCDD	40321-76-4	0.0360 J	0.0167	5.11	1
11031	123478-HxCDD	39227-28-6	0.0219 J	0.0146	5.11	1
11031	123678-HxCDD	57653-85-7	0.0346 JB	0.0158	5.11	1
11031	123789-HxCDD	19408-74-3	0.0636 JBQ	0.0146	5.11	1
11031	1234678-HpCDD	35822-46-9	0.284 JB	0.0175	5.11	1
11031	OCDD	3268-87-9	0.862 JB	0.0149	10.2	1
11031	2378-TCDF	51207-31-9	0.0162 U	0.0162	1.02	1
11031	12378-PeCDF	57117-41-6	0.0254 JBQ	0.00973	5.11	1
11031	23478-PeCDF	57117-31-4	0.0610 JBQ	0.00952	5.11	1
11031	123478-HxCDF	70648-26-9	0.0196 U	0.0196	5.11	1
11031	123678-HxCDF	57117-44-9	0.0482 JBQ	0.0180	5.11	1
11031	123789-HxCDF	72918-21-9	0.0500 JBQ	0.0119	5.11	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.0104	5.11	1
11031	1234678-HpCDF	67562-39-4	0.163 JB	0.0112	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0235 JBQ	0.0114	5.11	1
11031	OCDF	39001-02-0	0.230 JB	0.0225	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/18/2011 02:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0319 JQ	0.0314	1.06	1
11031	12378-PeCDD	40321-76-4	0.0346 JBQ	0.0234	5.28	1
11031	123478-HxCDD	39227-28-6	0.0217 U	0.0217	5.28	1
11031	123678-HxCDD	57653-85-7	0.0551 JBQ	0.0204	5.28	1
11031	123789-HxCDD	19408-74-3	0.0930 JBQ	0.0202	5.28	1
11031	1234678-HpCDD	35822-46-9	0.339 JB	0.0214	5.28	1
11031	OCDD	3268-87-9	1.15 JB	0.0208	10.6	1
11031	2378-TCDF	51207-31-9	0.0344 JQ	0.0252	1.06	1
11031	12378-PeCDF	57117-41-6	0.0291 JBQ	0.0138	5.28	1
11031	23478-PeCDF	57117-31-4	0.0135 U	0.0135	5.28	1
11031	123478-HxCDF	70648-26-9	0.0413 JBQ	0.0161	5.28	1
11031	123678-HxCDF	57117-44-9	0.0191 JBQ	0.0139	5.28	1
11031	123789-HxCDF	72918-21-9	0.0556 JQ	0.0176	5.28	1
11031	234678-HxCDF	60851-34-5	0.0511 JBQ	0.0147	5.28	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0113	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0411 JBQ	0.0186	5.28	1
11031	OCDF	39001-02-0	0.179 JB	0.0316	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 05:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885								
2378-TCDD	0.0626 J	0.0378	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0319 U	0.0319	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0204 U	0.0204	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0344 J	0.0212	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0271 J	0.0204	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.202 J	0.0320	5.00	ng/kg	99		70-140		
OCDD	0.380 J	0.0230	10.0	ng/kg	97		78-144		
2378-TCDF	0.0391 J	0.0342	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0281 J	0.0158	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0553 J	0.0164	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0239 U	0.0239	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0263 J	0.0195	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0293 J	0.0175	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0606 J	0.0151	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0913 J	0.0121	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0260 J	0.0168	5.00	ng/kg	98		78-138		
OCDF	0.189 J	0.0416	10.0	ng/kg	99		63-170		
Batch number: 11292003	Sample number(s): 6423881-6423882,6423886								
2378-TCDD	0.0344 U	0.0344	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0488 J	0.0288	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0310 J	0.0190	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0294 J	0.0192	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0415 J	0.0191	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.305 J	0.0224	5.00	ng/kg	95		70-140		
OCDD	0.653 J	0.0196	10.0	ng/kg	93		78-144		
2378-TCDF	0.0262 U	0.0262	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0392 J	0.0149	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0693 J	0.0140	5.00	ng/kg	92		68-160		
123478-HxCDF	0.114 J	0.0232	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0822 J	0.0204	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0174 U	0.0174	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0874 J	0.0146	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.370 J	0.0160	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0805 J	0.0189	5.00	ng/kg	93		78-138		
OCDF	0.256 J	0.0304	10.0	ng/kg	94		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886					BKG: P423856			
Moisture Content by 160.3						3.3	3.3	0	20
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885 UNSPK: 6423874								
2378-TCDD	105	105	67-158	1	25				
12378-PeCDD	103	104	70-142	1	25				
123478-HxCDD	104	103	70-164	2	25				
123678-HxCDD	100	99	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	102	100	70-140	3	25				
OCDD	103	99	78-144	5	25				
2378-TCDF	102	99	75-158	4	25				
12378-PeCDF	101	101	80-134	2	25				
23478-PeCDF	98	99	68-160	1	25				
123478-HxCDF	96	100	72-134	3	25				
123678-HxCDF	98	99	84-130	1	25				
123789-HxCDF	100	100	78-130	1	25				
234678-HxCDF	100	100	70-156	1	25				
1234678-HpCDF	97	97	82-122	1	25				
1234789-HpCDF	100	100	78-138	1	25				
OCDF	102	100	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11286001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423873	74	63	40	50	63	57
6423874	72	63	41	51	64	62
6423875	74	67	40	52	68	71
6423876	72	66	49	56	66	67
6423877	60	58	29	31	58	60
6423878	68	65	41	45	65	67
6423879	75	69	41	50	70	69
6423880	77	71	40	49	66	68
6423883	78	70	47	56	70	74
6423884	67	66	36	41	65	67
6423885	67	63	35	40	65	68
Blank	82	75	48	60	76	77
MS	74	67	40	52	68	71
MSD	72	66	49	56	66	67
OPR	69	59	40	53	63	56

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423873	69	56	55	74	78	81
6423874	67	62	62	71	80	77
6423875	72	64	66	76	79	83
6423876	71	64	65	71	80	81
6423877	45	57	59	64	71	70
6423878	61	67	73	73	78	83
6423879	63	69	77	76	83	90
6423880	61	65	64	78	81	78
6423883	73	70	72	78	85	91
6423884	53	66	69	72	76	76
6423885	53	63	64	69	74	74
Blank	86	74	75	85	92	93
MS	72	64	66	76	79	83
MSD	71	64	65	71	80	81
OPR	78	55	55	73	82	84

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6423873	79	82	82	66	75	
6423874	83	84	85	66	71	
6423875	83	87	92	69	78	
6423876	83	85	85	70	72	
6423877	73	76	76	56	63	
6423878	78	85	92	63	71	
6423879	84	88	95	70	77	
6423880	86	90	85	73	79	
6423883	90	91	92	74	80	
6423884	82	85	86	65	71	
6423885	76	80	82	65	70	
Blank	93	100	105	74	84	
MS	83	87	92	69	78	
MSD	83	85	85	70	72	
OPR	82	87	90	59	70	

Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11292003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423881	73	67	32	36	71	68
6423882	71	67	66	73	70	70
6423886	64	62	63	71	67	63
Blank	76	75	52	58	82	79
OPR	69	67	53	59	70	68

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423881	54	69	73	72	79	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

6423882	85	70	73	68	70	66
6423886	90	66	70	68	77	84
Blank	81	85	90	80	89	93
OPR	80	70	73	74	81	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6423881	81	87	91	71	74
6423882	82	86	88	68	71
6423886	82	86	92	60	68
Blank	93	102	109	71	77
OPR	83	89	92	64	72
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1269115 Sample# 6423873-86

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD sample
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								MS/MSD sample
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Brian Thom	09/29/2011 / 1630	Mary Hahn UPS 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8767 9857 4434; 8767 9858 3520	

acct#13013 Grp#1269115 Sample#6423373-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X										
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/29/2011 / 1630	LLJ 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 4434; 8767 9858 3520	

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269322
SDG: DX145
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA8S-SS-0.0-0.5 Soil	6426134
SL-009-SA8S-SS-0.0-0.5 Soil	6426135
SL-010-SA8S-SS-0.0-0.5 Soil	6426136
SL-011-SA8S-SS-0.0-0.5 Soil	6426137
SL-012-SA8S-SS-0.0-0.5 Soil	6426138
SL-016-SA8S-SS-0.0-0.5 Soil	6426139
SL-017-SA8S-SS-0.0-0.5 Soil	6426140
SL-018-SA8S-SS-0.0-0.5 Soil	6426141
SL-019-SA8S-SS-0.0-0.5 Soil	6426142
SL-020-SA8S-SS-0.0-0.5 Soil	6426143
SL-021-SA8S-SS-0.0-0.5 Soil	6426144

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	JQ	0.0271	1.07	1
11031	12378-PeCDD	40321-76-4	0.118	J	0.0297	5.34	1
11031	123478-HxCDD	39227-28-6	0.148	J	0.0353	5.34	1
11031	123678-HxCDD	57653-85-7	0.304	JB	0.0348	5.34	1
11031	123789-HxCDD	19408-74-3	0.269	J	0.0364	5.34	1
11031	1234678-HpCDD	35822-46-9	4.59	JB	0.0311	5.34	1
11031	OCDD	3268-87-9	32.0	B	0.0288	10.7	1
11031	2378-TCDF	51207-31-9	0.658	J	0.0803	1.07	1
11031	12378-PeCDF	57117-41-6	0.222	JB	0.0443	5.34	1
11031	23478-PeCDF	57117-31-4	1.64	JB	0.0444	5.34	1
11031	123478-HxCDF	70648-26-9	0.474	JB	0.0314	5.34	1
11031	123678-HxCDF	57117-44-9	0.285	JB	0.0274	5.34	1
11031	123789-HxCDF	72918-21-9	0.0528	JBQ	0.0316	5.34	1
11031	234678-HxCDF	60851-34-5	0.394	JB	0.0272	5.34	1
11031	1234678-HpCDF	67562-39-4	1.32	JB	0.0168	5.34	1
11031	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0242	5.34	1
11031	OCDF	39001-02-0	1.84	JB	0.0247	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 12:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0281	U	0.0281	1.04	1
11031	12378-PeCDD	40321-76-4	0.0440	JQ	0.0234	5.21	1
11031	123478-HxCDD	39227-28-6	0.0738	J	0.0317	5.21	1
11031	123678-HxCDD	57653-85-7	0.137	JB	0.0316	5.21	1
11031	123789-HxCDD	19408-74-3	0.164	J	0.0508	5.21	1
11031	1234678-HpCDD	35822-46-9	2.62	JB	0.0245	5.21	1
11031	OCDD	3268-87-9	18.0	B	0.0306	10.4	1
11031	2378-TCDF	51207-31-9	0.173	J	0.0493	1.04	1
11031	12378-PeCDF	57117-41-6	0.0713	JB	0.0250	5.21	1
11031	23478-PeCDF	57117-31-4	0.403	JBQ	0.0249	5.21	1
11031	123478-HxCDF	70648-26-9	0.100	JB	0.0199	5.21	1
11031	123678-HxCDF	57117-44-9	0.0820	JBQ	0.0181	5.21	1
11031	123789-HxCDF	72918-21-9	0.0441	JBQ	0.0233	5.21	1
11031	234678-HxCDF	60851-34-5	0.120	JBQ	0.0192	5.21	1
11031	1234678-HpCDF	67562-39-4	0.591	JB	0.0200	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0552	JBQ	0.0335	5.21	1
11031	OCDF	39001-02-0	0.948	JB	0.0284	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 13:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0495	JQ	0.0373	1.04	1
11031	12378-PeCDD	40321-76-4	0.187	JQ	0.0334	5.21	1
11031	123478-HxCDD	39227-28-6	0.115	JQ	0.0487	5.21	1
11031	123678-HxCDD	57653-85-7	0.430	JBQ	0.0478	5.21	1
11031	123789-HxCDD	19408-74-3	0.296	J	0.0461	5.21	1
11031	1234678-HpCDD	35822-46-9	5.41	B	0.0412	5.21	1
11031	OCDD	3268-87-9	35.5	B	0.0350	10.4	1
11031	2378-TCDF	51207-31-9	0.851	JQ	0.0759	1.04	1
11031	12378-PeCDF	57117-41-6	0.271	JBQ	0.0370	5.21	1
11031	23478-PeCDF	57117-31-4	1.10	JB	0.0377	5.21	1
11031	123478-HxCDF	70648-26-9	0.449	JB	0.0459	5.21	1
11031	123678-HxCDF	57117-44-9	0.281	JB	0.0354	5.21	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0451	5.21	1
11031	234678-HxCDF	60851-34-5	0.438	JB	0.0370	5.21	1
11031	1234678-HpCDF	67562-39-4	1.31	JB	0.0204	5.21	1
11031	1234789-HpCDF	55673-89-7	0.128	JB	0.0334	5.21	1
11031	OCDF	39001-02-0	1.93	JB	0.0441	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 04:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	U	0.0390	1.06	1
11031	12378-PeCDD	40321-76-4	0.124	JQ	0.0356	5.29	1
11031	123478-HxCDD	39227-28-6	0.109	J	0.0460	5.29	1
11031	123678-HxCDD	57653-85-7	0.320	JB	0.0490	5.29	1
11031	123789-HxCDD	19408-74-3	0.268	J	0.0446	5.29	1
11031	1234678-HpCDD	35822-46-9	5.79	B	0.0390	5.29	1
11031	OCDD	3268-87-9	43.9	B	0.0349	10.6	1
11031	2378-TCDF	51207-31-9	0.451	J	0.0709	1.06	1
11031	12378-PeCDF	57117-41-6	0.167	JBQ	0.0389	5.29	1
11031	23478-PeCDF	57117-31-4	0.191	JBQ	0.0367	5.29	1
11031	123478-HxCDF	70648-26-9	0.276	JBQ	0.0357	5.29	1
11031	123678-HxCDF	57117-44-9	0.163	JBQ	0.0315	5.29	1
11031	123789-HxCDF	72918-21-9	0.0554	JBQ	0.0381	5.29	1
11031	234678-HxCDF	60851-34-5	0.300	JB	0.0343	5.29	1
11031	1234678-HpCDF	67562-39-4	1.21	JB	0.0220	5.29	1
11031	1234789-HpCDF	55673-89-7	0.120	JBQ	0.0324	5.29	1
11031	OCDF	39001-02-0	1.89	JB	0.0353	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 05:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332	U	0.0332	1.05	1
11031	12378-PeCDD	40321-76-4	0.0769	JQ	0.0306	5.27	1
11031	123478-HxCDD	39227-28-6	0.141	JQ	0.0320	5.27	1
11031	123678-HxCDD	57653-85-7	0.204	JBQ	0.0337	5.27	1
11031	123789-HxCDD	19408-74-3	0.202	JQ	0.0496	5.27	1
11031	1234678-HpCDD	35822-46-9	3.22	JB	0.0323	5.27	1
11031	OCDD	3268-87-9	26.4	B	0.0276	10.5	1
11031	2378-TCDF	51207-31-9	0.195	JQ	0.0454	1.05	1
11031	12378-PeCDF	57117-41-6	0.144	JBQ	0.0273	5.27	1
11031	23478-PeCDF	57117-31-4	0.205	JBQ	0.0268	5.27	1
11031	123478-HxCDF	70648-26-9	0.246	JBQ	0.0303	5.27	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0267	5.27	1
11031	123789-HxCDF	72918-21-9	0.0897	JBQ	0.0343	5.27	1
11031	234678-HxCDF	60851-34-5	0.235	JB	0.0285	5.27	1
11031	1234678-HpCDF	67562-39-4	0.803	JB	0.0173	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0900	JBQ	0.0308	5.27	1
11031	OCDF	39001-02-0	1.62	JB	0.0334	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 06:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	JQ	0.0452	1.03	1
11031	12378-PeCDD	40321-76-4	0.140	J	0.0444	5.14	1
11031	123478-HxCDD	39227-28-6	0.0844	J	0.0443	5.14	1
11031	123678-HxCDD	57653-85-7	0.267	JBQ	0.0450	5.14	1
11031	123789-HxCDD	19408-74-3	0.350	JQ	0.0690	5.14	1
11031	1234678-HpCDD	35822-46-9	3.04	JB	0.0459	5.14	1
11031	OCDD	3268-87-9	21.4	B	0.0413	10.3	1
11031	2378-TCDF	51207-31-9	0.498	JQ	0.0823	1.03	1
11031	12378-PeCDF	57117-41-6	0.590	JB	0.0447	5.14	1
11031	23478-PeCDF	57117-31-4	0.640	JB	0.0474	5.14	1
11031	123478-HxCDF	70648-26-9	0.417	JB	0.0431	5.14	1
11031	123678-HxCDF	57117-44-9	0.208	JB	0.0387	5.14	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0507	5.14	1
11031	234678-HxCDF	60851-34-5	0.223	JB	0.0411	5.14	1
11031	1234678-HpCDF	67562-39-4	0.792	JB	0.0293	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0855	JBQ	0.0515	5.14	1
11031	OCDF	39001-02-0	1.31	JB	0.0545	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	JQ	0.0357	1.04	1
11031	12378-PeCDD	40321-76-4	0.139	JQ	0.0314	5.22	1
11031	123478-HxCDD	39227-28-6	0.123	J	0.0367	5.22	1
11031	123678-HxCDD	57653-85-7	0.345	JBQ	0.0394	5.22	1
11031	123789-HxCDD	19408-74-3	0.343	JQ	0.0609	5.22	1
11031	1234678-HpCDD	35822-46-9	4.94	JB	0.0352	5.22	1
11031	OCDD	3268-87-9	34.3	B	0.0350	10.4	1
11031	2378-TCDF	51207-31-9	0.699	J	0.0776	1.04	1
11031	12378-PeCDF	57117-41-6	0.326	JB	0.0412	5.22	1
11031	23478-PeCDF	57117-31-4	0.350	JBQ	0.0418	5.22	1
11031	123478-HxCDF	70648-26-9	0.488	JBQ	0.0389	5.22	1
11031	123678-HxCDF	57117-44-9	0.316	JBQ	0.0311	5.22	1
11031	123789-HxCDF	72918-21-9	0.113	JBQ	0.0393	5.22	1
11031	234678-HxCDF	60851-34-5	0.450	JB	0.0314	5.22	1
11031	1234678-HpCDF	67562-39-4	1.12	JB	0.0206	5.22	1
11031	1234789-HpCDF	55673-89-7	0.144	JBQ	0.0395	5.22	1
11031	OCDF	39001-02-0	2.14	JB	0.0375	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0471	U	0.0471	1.02	1
11031	12378-PeCDD	40321-76-4	0.0931	J	0.0668	5.09	1
11031	123478-HxCDD	39227-28-6	0.102	J	0.0400	5.09	1
11031	123678-HxCDD	57653-85-7	0.274	JB	0.0423	5.09	1
11031	123789-HxCDD	19408-74-3	0.278	JQ	0.0619	5.09	1
11031	1234678-HpCDD	35822-46-9	4.00	JB	0.0330	5.09	1
11031	OCDD	3268-87-9	36.1	B	0.0308	10.2	1
11650	2378-TCDF-Conf	51207-31-9	9.38	C	0.112	1.02	1
11031	12378-PeCDF	57117-41-6	8.38	B	0.110	5.09	1
11031	23478-PeCDF	57117-31-4	5.72	B	0.122	5.09	1
11031	123478-HxCDF	70648-26-9	6.21	B	0.0760	5.09	1
11031	123678-HxCDF	57117-44-9	1.61	JB	0.0614	5.09	1
11031	123789-HxCDF	72918-21-9	0.718	JB	0.0889	5.09	1
11031	234678-HxCDF	60851-34-5	1.40	JBQ	0.0674	5.09	1
11031	1234678-HpCDF	67562-39-4	1.50	JB	0.0214	5.09	1
11031	1234789-HpCDF	55673-89-7	0.617	JBQ	0.0449	5.09	1
11031	OCDF	39001-02-0	2.24	JB	0.0482	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	61	24 - 169
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 09:23	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11280002	10/17/2011 18:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0258 U	0.0258	1.02	1
11031	12378-PeCDD	40321-76-4	0.0518 JQ	0.0242	5.08	1
11031	123478-HxCDD	39227-28-6	0.0545 JQ	0.0270	5.08	1
11031	123678-HxCDD	57653-85-7	0.128 JBQ	0.0279	5.08	1
11031	123789-HxCDD	19408-74-3	0.0989 JQ	0.0249	5.08	1
11031	1234678-HpCDD	35822-46-9	1.64 JB	0.0254	5.08	1
11031	OCDD	3268-87-9	9.43 JB	0.0237	10.2	1
11031	2378-TCDF	51207-31-9	0.0445 U	0.0445	1.02	1
11031	12378-PeCDF	57117-41-6	0.0680 JBQ	0.0230	5.08	1
11031	23478-PeCDF	57117-31-4	0.361 JB	0.0244	5.08	1
11031	123478-HxCDF	70648-26-9	0.116 JBQ	0.0195	5.08	1
11031	123678-HxCDF	57117-44-9	0.0971 JBQ	0.0170	5.08	1
11031	123789-HxCDF	72918-21-9	0.0259 JBQ	0.0226	5.08	1
11031	234678-HxCDF	60851-34-5	0.139 JB	0.0186	5.08	1
11031	1234678-HpCDF	67562-39-4	0.545 JB	0.0156	5.08	1
11031	1234789-HpCDF	55673-89-7	0.0534 JBQ	0.0293	5.08	1
11031	OCDF	39001-02-0	1.03 JB	0.0321	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 10:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0303	U	0.0303	1.06	1
11031	12378-PeCDD	40321-76-4	0.0673	J	0.0285	5.28	1
11031	123478-HxCDD	39227-28-6	0.0740	JQ	0.0350	5.28	1
11031	123678-HxCDD	57653-85-7	0.208	JB	0.0377	5.28	1
11031	123789-HxCDD	19408-74-3	0.141	J	0.0326	5.28	1
11031	1234678-HpCDD	35822-46-9	3.16	JB	0.0340	5.28	1
11031	OCDD	3268-87-9	18.9	B	0.0209	10.6	1
11031	2378-TCDF	51207-31-9	0.344	J	0.0484	1.06	1
11031	12378-PeCDF	57117-41-6	0.0976	JBQ	0.0265	5.28	1
11031	23478-PeCDF	57117-31-4	0.239	JBQ	0.0275	5.28	1
11031	123478-HxCDF	70648-26-9	0.256	JB	0.0309	5.28	1
11031	123678-HxCDF	57117-44-9	0.169	JB	0.0255	5.28	1
11031	123789-HxCDF	72918-21-9	0.0602	JBQ	0.0341	5.28	1
11031	234678-HxCDF	60851-34-5	0.290	JB	0.0275	5.28	1
11031	1234678-HpCDF	67562-39-4	0.796	JB	0.0157	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0460	JBQ	0.0270	5.28	1
11031	OCDF	39001-02-0	1.32	JBQ	0.0407	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 11:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0343	JQ	0.0320	1.06	1
11031	12378-PeCDD	40321-76-4	0.0549	JQ	0.0301	5.28	1
11031	123478-HxCDD	39227-28-6	0.0810	J	0.0399	5.28	1
11031	123678-HxCDD	57653-85-7	0.255	JB	0.0422	5.28	1
11031	123789-HxCDD	19408-74-3	0.257	JQ	0.0511	5.28	1
11031	1234678-HpCDD	35822-46-9	4.66	JB	0.0374	5.28	1
11031	OCDD	3268-87-9	37.9	B	0.0315	10.6	1
11031	2378-TCDF	51207-31-9	0.219	J	0.0519	1.06	1
11031	12378-PeCDF	57117-41-6	0.0758	JBQ	0.0266	5.28	1
11031	23478-PeCDF	57117-31-4	0.0837	JB	0.0263	5.28	1
11031	123478-HxCDF	70648-26-9	0.205	JBQ	0.0263	5.28	1
11031	123678-HxCDF	57117-44-9	0.109	JBQ	0.0227	5.28	1
11031	123789-HxCDF	72918-21-9	0.0309	JB	0.0260	5.28	1
11031	234678-HxCDF	60851-34-5	0.146	JBQ	0.0218	5.28	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0184	5.28	1
11031	1234789-HpCDF	55673-89-7	0.115	JBQ	0.0273	5.28	1
11031	OCDF	39001-02-0	2.83	JB	0.0368	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 12:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285162401A	Sample number(s): 6426134-6426142								
Moisture Content by 160.3					102		80-120		
Batch number: 11285162401B	Sample number(s): 6426143-6426144								
Moisture Content by 160.3					102		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11280002	Sample number(s): 6426134-6426144								
2378-TCDD	0.0413 U	0.0413	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0372 U	0.0372	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0238 U	0.0238	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0498 J	0.0235	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0242 U	0.0242	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.308 J	0.0298	5.00	ng/kg	98		70-140		
OCDD	0.625 J	0.0211	10.0	ng/kg	98		78-144		
2378-TCDF	0.0379 U	0.0379	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0480 U	0.0480	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0197 J	0.0189	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0656 J	0.0189	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0739 J	0.0214	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0577 J	0.0185	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0378 J	0.0238	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0899 J	0.0202	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.210 J	0.0107	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0464 J	0.0203	5.00	ng/kg	99		78-138		
OCDF	0.226 J	0.0378	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401A	Sample number(s): 6426134-6426142					BKG: P426118			
Moisture Content by 160.3						2.2	2.2	0 (1)	20
Batch number: 11285162401B	Sample number(s): 6426143-6426144					BKG: P426127			
Moisture Content by 160.3						6.6	5.9	11	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11280002	Sample number(s): 6426134-6426144 UNSPK: P421344								
2378-TCDD	99	102	67-158	3	25				
12378-PeCDD	101	101	70-142	0	25				
123478-HxCDD	101	100	70-164	1	25				
123678-HxCDD	96	96	76-134	0	25				
123789-HxCDD	98	99	64-162	1	25				
1234678-HpCDD	119	106	70-140	11	25				
OCDD	225*	142	78-144	35*	25				
2378-TCDF	96	95	75-158	0	25				
2378-TCDF-Conf	96	95	75-158	0	25				
12378-PeCDF	99	98	80-134	0	25				
23478-PeCDF	96	97	68-160	1	25				
123478-HxCDF	98	97	72-134	0	25				
123678-HxCDF	98	96	84-130	2	25				
123789-HxCDF	98	94	78-130	4	25				
234678-HxCDF	98	98	70-156	0	25				
1234678-HpCDF	98	96	82-122	2	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	101	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6426134	76	69	60	68	69	69
6426135	74	64	63	70	63	63
6426136	78	66	57	69	65	64
6426137	74	65	61	67	63	64
6426138	76	67	64	72	65	65
6426139	78	67	66	75	69	67
6426140	78	69	54	67	67	63
6426141	72	62	59	70	60	56
6426142	75	65	62	72	66	64
6426143	74	64	59	70	63	60
6426144	74	66	57	65	65	65
Blank	77	71	67	78	73	75
MS	74	65	64	72	67	64
MSD	75	68	69	78	71	69
OPR	67	62	58	71	64	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6426134	86	69	71	74	84	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Surrogate Quality Control

6426135	84	61	61	71	76	76
6426136	88	60	62	75	80	82
6426137	78	63	64	70	74	74
6426138	88	64	63	74	78	77
6426139	87	64	59	71	80	81
6426140	92	60	58	76	83	80
6426141	95	54	53	70	78	75
6426142	96	61	61	73	80	80
6426143	88	59	59	72	78	74
6426144	79	64	62	71	77	74
Blank	113	76	77	81	86	91
MS	91	64	69	71	83	88
MSD	97	72	76	74	80	86
OPR	103	63	66	72	84	88
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6426134	84	88	93	73	76	
6426135	48	85	85	71	72	
6426136	81	85	89	70	75	
6426137	79	84	82	69	70	
6426138	56	87	85	74	76	
6426139	57	87	82	75	74	
6426140	48	92	92	74	79	
6426141	48	86	89		75	61
6426142	86	88	90	71	75	
6426143	82	86	87	70	74	
6426144	60	85	83	72	74	
Blank	89	104	115	70	79	66
MS	82	85	93	70	73	70
MSD	82	91	101	73	76	73
OPR	88	94	106	60	70	60
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1269322 sample# 6426134-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The surface code SS was added to the samples listed above. NLM 10/4/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/21/2011
Group Number: 1272534
SDG: DE273
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA7-SB-2.0-3.0 Soil	6445463
SL-060-SA7-SB-2.5-3.5 Soil	6445464
SL-069-SA7-SB-2.5-3.5 Soil	6445465
SL-148-SA7-SB-0.0-1.0 Soil	6445466
SL-026-SA5DS-SB-4.0-5.0 Soil	6445467
SL-026-SA5DS-SB-9.0-10.0 Soil	6445468
SL-040-SA5DS-SB-4.0-5.0 Soil	6445469
SL-040-SA5DS-SB-9.0-10.0 Soil	6445470
SL-016-SA8S-SB-4.0-5.0 Soil	6445471
TB-102011 Water	6445473

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	J	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.62	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.1	25.46
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.66	J	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	2.8		0.41	1.2	1
10199	EFH (C21-C30)	n.a.	13		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	22		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.97	19.7	1
07914	Boron	7440-42-8	6.14		0.355	4.93	1
01650	Calcium	7440-70-2	2,530		2.47	19.7	1
01654	Iron	7439-89-6	19,000		2.58	19.7	1
01656	Lithium	7439-93-2	27.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,510		0.434	9.87	1
06958	Manganese	7439-96-5	303		0.0355	0.493	1
10145	Phosphorus	7723-14-0	400		0.345	9.87	1
01662	Potassium	7440-09-7	3,000		11.2	49.3	1
01667	Sodium	7440-23-5	73.6	J	5.87	98.7	1
07968	Strontium	7440-24-6	14.0		0.0247	0.493	1
06969	Tin	7440-31-5	2.51	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,060		0.0701	0.987	1
10146	Zirconium	7440-67-7	3.26	J	0.454	4.93	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0767	U	0.0767	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.51		0.0829	0.415	2
06126	Barium	7440-39-3	81.9		0.110	0.415	2
06127	Beryllium	7440-41-7	0.467		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.149		0.0456	0.104	2
06131	Chromium	7440-47-3	14.7		0.124	0.415	2
06132	Cobalt	7440-48-4	5.10		0.0207	0.104	2
06133	Copper	7440-50-8	6.73		0.0829	0.415	2
06135	Lead	7439-92-1	4.68		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.457		0.0518	0.104	2
06139	Nickel	7440-02-0	9.30		0.104	0.415	2
06141	Selenium	7782-49-2	0.137	J	0.0601	0.415	2
06142	Silver	7440-22-4	0.0253	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.243		0.0311	0.104	2
06148	Vanadium	7440-62-2	29.5		0.0228	0.104	2
06149	Zinc	7440-66-6	55.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.82	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.82	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.58		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 22:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/27/2011 16:24	Laura M Krieger	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:05	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:06	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:33	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 16:34	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 01:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 18:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 16:07	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.51
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.83	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	4.3		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.21	20.5	1
07914	Boron	7440-42-8	5.18		0.370	5.13	1
01650	Calcium	7440-70-2	2,240		2.57	20.5	1
01654	Iron	7439-89-6	17,200		2.68	20.5	1
01656	Lithium	7439-93-2	17.2		0.64	2.1	1
01657	Magnesium	7439-95-4	3,820		0.452	10.3	1
06958	Manganese	7439-96-5	168		0.0370	0.513	1
10145	Phosphorus	7723-14-0	98.7		0.359	10.3	1
01662	Potassium	7440-09-7	945		11.6	51.3	1
01667	Sodium	7440-23-5	156		6.11	103	1
07968	Strontium	7440-24-6	15.5		0.0257	0.513	1
06969	Tin	7440-31-5	2.62	J	0.329	10.3	1
06970	Titanium	7440-32-6	968		0.0729	1.03	1
10146	Zirconium	7440-67-7	2.54	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0752	U	0.0752	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.76		0.0813	0.407	2
06126	Barium	7440-39-3	36.1		0.108	0.407	2
06127	Beryllium	7440-41-7	0.398		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.0447	U	0.0447	0.102	2
06131	Chromium	7440-47-3	13.9		0.122	0.407	2
06132	Cobalt	7440-48-4	3.37		0.0203	0.102	2
06133	Copper	7440-50-8	4.05		0.0813	0.407	2
06135	Lead	7439-92-1	2.85		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.226		0.0508	0.102	2
06139	Nickel	7440-02-0	10.8		0.102	0.407	2
06141	Selenium	7782-49-2	0.0657	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0206	J	0.0144	0.102	2
06145	Thallium	7440-28-0	0.144		0.0305	0.102	2
06148	Vanadium	7440-62-2	25.5		0.0224	0.102	2
06149	Zinc	7440-66-6	27.1		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.68		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 22:29	Laura M Krieger	24.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:46	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:48	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 10:35	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:46	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	26.65
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.53	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	6.5		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	12		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.18	20.4	1
07914	Boron	7440-42-8	5.96		0.368	5.11	1
01650	Calcium	7440-70-2	2,750		2.55	20.4	1
01654	Iron	7439-89-6	23,500		2.67	20.4	1
01656	Lithium	7439-93-2	25.2		0.63	2.0	1
01657	Magnesium	7439-95-4	6,180		0.449	10.2	1
06958	Manganese	7439-96-5	322		0.0368	0.511	1
10145	Phosphorus	7723-14-0	359		0.357	10.2	1
01662	Potassium	7440-09-7	3,780		11.5	51.1	1
01667	Sodium	7440-23-5	78.9	J	6.08	102	1
07968	Strontium	7440-24-6	14.3		0.0255	0.511	1
06969	Tin	7440-31-5	2.68	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,240		0.0725	1.02	1
10146	Zirconium	7440-67-7	3.10	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.63		0.0833	0.417	2
06126	Barium	7440-39-3	82.7		0.110	0.417	2
06127	Beryllium	7440-41-7	0.585		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0879	J	0.0458	0.104	2
06131	Chromium	7440-47-3	22.9		0.125	0.417	2
06132	Cobalt	7440-48-4	6.74		0.0208	0.104	2
06133	Copper	7440-50-8	10.0		0.0833	0.417	2
06135	Lead	7439-92-1	4.83		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.347		0.0521	0.104	2
06139	Nickel	7440-02-0	15.8		0.104	0.417	2
06141	Selenium	7782-49-2	0.132	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0376	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.263		0.0313	0.104	2
06148	Vanadium	7440-62-2	43.1		0.0229	0.104	2
06149	Zinc	7440-66-6	56.4		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0992	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 16:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 23:07	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:08	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:09	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:45	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:59	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 10:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:47	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.8	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	8.1	J	6.2	19	1
10138	Chrysene	218-01-9	0.38	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.71	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	5.4		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	13		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.24	20.6	1
07914	Boron	7440-42-8	4.61	J	0.371	5.15	1
01650	Calcium	7440-70-2	2,570		2.58	20.6	1
01654	Iron	7439-89-6	19,700		2.69	20.6	1
01656	Lithium	7439-93-2	21.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,600		0.454	10.3	1
06958	Manganese	7439-96-5	253		0.0371	0.515	1
10145	Phosphorus	7723-14-0	258		0.361	10.3	1
01662	Potassium	7440-09-7	2,220		11.6	51.5	1
01667	Sodium	7440-23-5	74.8	J	6.13	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.515	1
06969	Tin	7440-31-5	2.69	J	0.330	10.3	1
06970	Titanium	7440-32-6	982		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.66	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	U	0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.44		0.0801	0.401	2
06126	Barium	7440-39-3	82.5		0.106	0.401	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.607	0.0160	0.100	2
06128	Cadmium	7440-43-9	0.0780 J	0.0441	0.100	2
06131	Chromium	7440-47-3	18.2	0.120	0.401	2
06132	Cobalt	7440-48-4	6.03	0.0200	0.100	2
06133	Copper	7440-50-8	7.01	0.0801	0.401	2
06135	Lead	7439-92-1	5.48	0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.466	0.0501	0.100	2
06139	Nickel	7440-02-0	11.7	0.100	0.401	2
06141	Selenium	7782-49-2	0.147 J	0.0581	0.401	2
06142	Silver	7440-22-4	0.0344 J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.227	0.0300	0.100	2
06148	Vanadium	7440-62-2	35.8	0.0220	0.100	2
06149	Zinc	7440-66-6	52.2	0.561	3.00	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.84	1.6	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.21	1.0	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.69	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 23:02	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 01:12	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:04	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 11:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.65	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.51	21.5	1
07914	Boron	7440-42-8	13.4		0.387	5.38	1
01650	Calcium	7440-70-2	5,730		2.69	21.5	1
01654	Iron	7439-89-6	28,500		14.0	108	5
01656	Lithium	7439-93-2	40.0		0.67	2.2	1
01657	Magnesium	7439-95-4	8,240		0.474	10.8	1
06958	Manganese	7439-96-5	323		0.0387	0.538	1
10145	Phosphorus	7723-14-0	588		0.377	10.8	1
01662	Potassium	7440-09-7	4,200		12.2	53.8	1
01667	Sodium	7440-23-5	164		6.40	108	1
07968	Strontium	7440-24-6	23.1		0.0269	0.538	1
06969	Tin	7440-31-5	2.74	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,380		0.0764	1.08	1
10146	Zirconium	7440-67-7	7.39		0.495	5.38	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	U	0.0804	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.73		0.0870	0.435	2
06126	Barium	7440-39-3	70.5		0.115	0.435	2
06127	Beryllium	7440-41-7	0.578		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0890	J	0.0478	0.109	2
06131	Chromium	7440-47-3	27.9		0.130	0.435	2
06132	Cobalt	7440-48-4	8.63		0.0217	0.109	2
06133	Copper	7440-50-8	10.8		0.0870	0.435	2
06135	Lead	7439-92-1	6.65		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.303		0.0543	0.109	2
06139	Nickel	7440-02-0	14.4		0.109	0.435	2
06141	Selenium	7782-49-2	0.206	J	0.0630	0.435	2
06142	Silver	7440-22-4	0.0154	U	0.0154	0.109	2
06145	Thallium	7440-28-0	0.269		0.0326	0.109	2
06148	Vanadium	7440-62-2	56.7		0.0239	0.109	2
06149	Zinc	7440-66-6	67.9		0.609	3.26	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.87	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.20		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:37	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112980018A	10/26/2011 19:33	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112980018A	10/26/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:20	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		6.64	22.0	1
07914	Boron	7440-42-8	17.5		0.395	5.49	1
01650	Calcium	7440-70-2	6,120		2.74	22.0	1
01654	Iron	7439-89-6	37,300		14.3	110	5
01656	Lithium	7439-93-2	52.9		0.68	2.2	1
01657	Magnesium	7439-95-4	10,500		0.483	11.0	1
06958	Manganese	7439-96-5	250		0.0395	0.549	1
10145	Phosphorus	7723-14-0	613		0.384	11.0	1
01662	Potassium	7440-09-7	6,250		12.4	54.9	1
01667	Sodium	7440-23-5	209		6.53	110	1
07968	Strontium	7440-24-6	31.9		0.0274	0.549	1
06969	Tin	7440-31-5	2.98	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,590		0.0779	1.10	1
10146	Zirconium	7440-67-7	7.92		0.505	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0880	J	0.0812	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86		0.0878	0.439	2
06126	Barium	7440-39-3	103		0.116	0.439	2
06127	Beryllium	7440-41-7	0.762		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.108	J	0.0483	0.110	2
06131	Chromium	7440-47-3	35.9		0.132	0.439	2
06132	Cobalt	7440-48-4	8.11		0.0220	0.110	2
06133	Copper	7440-50-8	20.6		0.0878	0.439	2
06135	Lead	7439-92-1	9.82		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.165		0.0549	0.110	2
06139	Nickel	7440-02-0	22.5		0.110	0.439	2
06141	Selenium	7782-49-2	0.344	J	0.0637	0.439	2
06142	Silver	7440-22-4	0.0195	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.395		0.0329	0.110	2
06148	Vanadium	7440-62-2	67.2		0.0241	0.110	2
06149	Zinc	7440-66-6	98.9		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.1		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:02	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:23	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 13:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		6.53	21.6	1
07914	Boron	7440-42-8	12.2		0.389	5.40	1
01650	Calcium	7440-70-2	3,610		2.70	21.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,900	14.1	108	5
01656	Lithium	7439-93-2	31.3	0.67	2.2	1
01657	Magnesium	7439-95-4	7,700	0.475	10.8	1
06958	Manganese	7439-96-5	295	0.0389	0.540	1
10145	Phosphorus	7723-14-0	372	0.378	10.8	1
01662	Potassium	7440-09-7	3,930	12.2	54.0	1
01667	Sodium	7440-23-5	903	6.42	108	1
07968	Strontium	7440-24-6	34.3	0.0270	0.540	1
06969	Tin	7440-31-5	2.92 J	0.346	10.8	1
06970	Titanium	7440-32-6	1,330	0.0767	1.08	1
10146	Zirconium	7440-67-7	8.67	0.497	5.40	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0827 J	0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.45	0.0864	0.432	2
06126	Barium	7440-39-3	107	0.114	0.432	2
06127	Beryllium	7440-41-7	0.852	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0595 J	0.0475	0.108	2
06131	Chromium	7440-47-3	36.9	0.130	0.432	2
06132	Cobalt	7440-48-4	10.5	0.0216	0.108	2
06133	Copper	7440-50-8	12.8	0.0864	0.432	2
06135	Lead	7439-92-1	8.46	0.0110	0.216	2
06138	Molybdenum	7439-98-7	0.606	0.0540	0.108	2
06139	Nickel	7440-02-0	19.5	0.108	0.432	2
06141	Selenium	7782-49-2	0.112 J	0.0626	0.432	2
06142	Silver	7440-22-4	0.0407 J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.353	0.0324	0.108	2
06148	Vanadium	7440-62-2	70.5	0.0238	0.108	2
06149	Zinc	7440-66-6	69.5	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	25.0	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.2	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:23	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:27	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 21:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		6.38	21.1	1
07914	Boron	7440-42-8	9.92		0.380	5.27	1
01650	Calcium	7440-70-2	3,970		2.64	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	31,200		13.8	105	5
01656	Lithium	7439-93-2	30.1		0.65	2.1	1
01657	Magnesium	7439-95-4	7,470		0.464	10.5	1
06958	Manganese	7439-96-5	339		0.0380	0.527	1
10145	Phosphorus	7723-14-0	467		0.369	10.5	1
01662	Potassium	7440-09-7	2,760		11.9	52.7	1
01667	Sodium	7440-23-5	848		6.27	105	1
07968	Strontium	7440-24-6	28.2		0.0264	0.527	1
06969	Tin	7440-31-5	2.92	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,240		0.0748	1.05	1
10146	Zirconium	7440-67-7	8.22		0.485	5.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0796	U	0.0796	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.47		0.0860	0.430	2
06126	Barium	7440-39-3	90.8		0.114	0.430	2
06127	Beryllium	7440-41-7	0.729		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.0473	U	0.0473	0.108	2
06131	Chromium	7440-47-3	39.9		0.129	0.430	2
06132	Cobalt	7440-48-4	10.7		0.0215	0.108	2
06133	Copper	7440-50-8	10.4		0.0860	0.430	2
06135	Lead	7439-92-1	7.86		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.471		0.0538	0.108	2
06139	Nickel	7440-02-0	19.3		0.108	0.430	2
06141	Selenium	7782-49-2	0.164	J	0.0624	0.430	2
06142	Silver	7440-22-4	0.0203	J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.280		0.0323	0.108	2
06148	Vanadium	7440-62-2	67.5		0.0237	0.108	2
06149	Zinc	7440-66-6	62.7		0.602	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:31	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 14:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

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Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.63	21.9	1
07914	Boron	7440-42-8	9.65		0.395	5.48	1
01650	Calcium	7440-70-2	11,200		2.74	21.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,900		2.86	21.9	1
01656	Lithium	7439-93-2	24.6		0.68	2.2	1
01657	Magnesium	7439-95-4	4,600		0.482	11.0	1
06958	Manganese	7439-96-5	403		0.0395	0.548	1
10145	Phosphorus	7723-14-0	300		0.384	11.0	1
01662	Potassium	7440-09-7	3,940		12.4	54.8	1
01667	Sodium	7440-23-5	83.0	J	6.52	110	1
07968	Strontium	7440-24-6	21.1		0.0274	0.548	1
06969	Tin	7440-31-5	2.71	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,150		0.0779	1.10	1
10146	Zirconium	7440-67-7	4.78	J	0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0780	U	0.0780	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.12		0.0843	0.422	2
06126	Barium	7440-39-3	116		0.112	0.422	2
06127	Beryllium	7440-41-7	0.735		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.176		0.0464	0.105	2
06131	Chromium	7440-47-3	22.5		0.127	0.422	2
06132	Cobalt	7440-48-4	8.16		0.0211	0.105	2
06133	Copper	7440-50-8	12.1		0.0843	0.422	2
06135	Lead	7439-92-1	6.92		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.490		0.0527	0.105	2
06139	Nickel	7440-02-0	16.1		0.105	0.422	2
06141	Selenium	7782-49-2	0.0647	J	0.0612	0.422	2
06142	Silver	7440-22-4	0.0377	J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.313		0.0316	0.105	2
06148	Vanadium	7440-62-2	43.7		0.0232	0.105	2
06149	Zinc	7440-66-6	62.0		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.1		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
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SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.17	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 02:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
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Account # 13013

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Collected: 10/20/2011 15:08

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SL016 SDG#: DE273-09

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06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 21:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 15:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-102011 Water
SSFL Area IV Collocated Soil Sampling
TB-102011

LLI Sample # WW 6445473
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 08:00

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB120 SDG#: DE273-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471									
Aniline	170 U		170.	500	ug/kg	63		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	33		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	105		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	100		51-117		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11295SLC026	Sample number(s): 6445463-6445471									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	86		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	99		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11299A16A	Sample number(s): 6445463-6445465									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11300A20A	Sample number(s): 6445473									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112980018A	Sample number(s): 6445467									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 112990025A	Sample number(s): 6445463-6445471									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112970037A	Sample number(s): 6445463-6445466									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	100		68-129		
Batch number: 112980042A	Sample number(s): 6445463-6445466									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112990013A	Sample number(s): 6445463-6445466									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		69-109		
Batch number: 113000011A	Sample number(s): 6445463-6445466									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112971026003A	Sample number(s): 6445463-6445471									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6445463-6445471									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6445463-6445471									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6445463-6445471									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6445463-6445471									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6445463-6445471									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621201B	Sample number(s): 6445463-6445471									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11300102201A	Sample number(s): 6445463-6445466									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11305243201A	Sample number(s): 6445463-6445471									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203A	Sample number(s): 6445463-6445471									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11300039403A	Sample number(s): 6445463-6445471									
17a pH by 9045C						100		95-105		
Batch number: 11301162401B	Sample number(s): 6445463-6445471									
Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471 UNSPK: P443490								
Aniline	65	74	18-116	13	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	74	58	10-173	25	30				
Benzyl alcohol	90	94	67-115	5	30				
4-Bromophenyl-phenylether	92	96	67-129	4	30				
Carbazole	92	98	64-120	6	30				
4-Chloro-3-methylphenol	94	99	62-122	6	30				
4-Chloroaniline	55	70	13-107	24	30				
bis(2-Chloroethoxy)methane	93	98	75-104	6	30				
bis(2-Chloroethyl)ether	88	90	60-116	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	84	86	55-142	2	30				
2-Chloronaphthalene	71	74	50-141	4	30				
2-Chlorophenol	94	97	73-121	3	30				
4-Chlorophenyl-phenylether	94	97	80-109	3	30				
Dibenzofuran	91	96	71-112	5	30				
1,2-Dichlorobenzene	85	87	66-108	2	30				
1,3-Dichlorobenzene	85	86	63-109	1	30				
1,4-Dichlorobenzene	85	86	58-108	2	30				
3,3'-Dichlorobenzidine	39	55	28-109	33*	30				
2,4-Dichlorophenol	97	100	66-123	3	30				
2,4-Dimethylphenol	93	98	68-118	5	30				
3,5-Dimethylphenol	98	104	71-127	5	30				
4,6-Dinitro-2-methylphenol	80	46	11-126	53*	30				
2,4-Dinitrophenol	65	20	20-143	104*	30				
2,4-Dinitrotoluene	98	100	56-129	2	30				
2,6-Dinitrotoluene	97	101	69-123	4	30				
1,2-Diphenylhydrazine	94	97	71-129	3	30				
Hexachlorobenzene	91	96	77-114	5	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	87	86	10-153	1	30				
Hexachloroethane	84	84	57-109	0	30				
Isophorone	89	94	73-102	5	30				
2-Methylphenol	95	97	75-111	2	30				
4-Methylphenol	93	95	59-123	1	30				
2-Nitroaniline	98	101	67-125	3	30				
3-Nitroaniline	93	100	59-122	7	30				
4-Nitroaniline	81	89	41-109	10	30				
Nitrobenzene	89	95	57-125	7	30				
2-Nitrophenol	90	91	56-127	2	30				
4-Nitrophenol	86	90	37-129	5	30				
N-Nitroso-di-n-propylamine	84	87	60-116	3	30				
N-Nitrosodiphenylamine	95	98	71-122	4	30				
Pentachlorophenol	96	87	28-127	9	30				
Phenol	96	100	58-126	4	30				
1,2,4-Trichlorobenzene	88	93	72-115	5	30				
2,4,5-Trichlorophenol	94	98	58-129	4	30				
2,4,6-Trichlorophenol	94	96	56-134	2	30				
Batch number: 11295SLC026	Sample number(s): 6445463-6445471 UNSPK: P443491								
Acenaphthene	92	89	63-105	3	30				
Acenaphthylene	88	85	67-114	3	30				
Anthracene	95	92	73-115	3	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	92	90	58-142	2	30				
Benzo(b)fluoranthene	91	88	54-163	3	30				
Benzo(g,h,i)perylene	102	98	33-141	4	30				
Benzo(k)fluoranthene	93	92	57-153	1	30				
Butylbenzylphthalate	100	96	57-173	5	30				
Di-n-butylphthalate	94	94	65-148	0	30				
Chrysene	98	97	67-123	1	30				
Dibenz(a,h)anthracene	104	101	22-133	2	30				
Diethylphthalate	91	88	70-136	4	30				
Dimethylphthalate	94	91	74-118	3	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	124	119	39-167	4	30				
Fluoranthene	95	94	51-149	1	30				
Fluorene	91	88	66-122	3	30				
Indeno(1,2,3-cd)pyrene	104	100	21-143	3	30				
1-Methylnaphthalene	86	82	72-123	5	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	87	83	61-102	5	30				
N-Nitrosodimethylamine	96	89	48-113	8	30				
Di-n-octylphthalate	89	89	40-192	0	30				
Phenanthrene	91	88	62-122	3	30				
Pyrene	95	88	51-131	7	30				
Batch number: 112980018A	Sample number(s): 6445467 UNSPK: P439929								
6a Perchlorate EPA 6850	100	104	80-120	4	20				
Batch number: 112990025A	Sample number(s): 6445463-6445471 UNSPK: P446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112970037A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
Ethanol	84	91	48-130	8	20				
Isopropanol	90	94	12-149	5	20				
Methanol	89	100	43-138	11	20				
Batch number: 112980042A	Sample number(s): 6445463-6445466 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112990013A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
m-Terphenyl	107	105	75-125	2	20				
o-Terphenyl	106	105	75-125	2	20				
p-Terphenyl	106	104	75-125	2	20				
Batch number: 113000011A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
EFH (C12-C14)	119	283*	49-123	59*	20				
EFH (C15-C20)	494*	190*	49-123	55*	20				
EFH (C21-C30)	1022 (2)	728 (2)	49-123	20	20				
EFH (C30 - C40)	292 (2)	353 (2)	49-123	5	20				
EFH (C8-C11)	90	90	49-123	0	20				
Batch number: 112971026003A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20
Batch number: 112971026003D	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Barium	43 (2)	-80 (2)	75-125	11	20	109	113	3	20
Batch number: 112975708006	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400	28,100	2	20
Boron	96	92	84-115	2	20	9.74	9.76	0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800	11,100	14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600	27,400	7	20
Lithium	103	91	82-114	8	20	26.0	27.0	4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070	5,250	4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282	320	13	20
Phosphorus	87	98	75-125	5	20	168	165	2	20
Potassium	151*	80	75-125	18	20	2,640	2,740	3	20
Sodium	100	93	75-125	6	20	75.4 J	75.9 J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6	19.5	0	20
Tin	81	80	80-110	1	20	2.73 J	2.88 J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070	1,110	4	20
Zirconium	96	88	81-110	6	20	5.00	6.41	25* (1)	20
Batch number: 112975711003	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Mercury	95	102	65-135	9	20	0.0150 J	0.0204 J	30* (1)	20
Batch number: 11298621201B	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11300102201A	Sample number(s): 6445463-6445466 UNSPK: P443491 BKG: P443491								
16a Cyanide by 9012B	102		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11305243201A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
3a Cr VI by EPA 7199	94		75-125			0.21 J	0.56 J	90* (1)	20
Batch number: 11306621203A	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
11a Anions by 300.0 - Fluoride	73*		80-120			1.1	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			2.3	2.1	9 (1)	20
Batch number: 11300039403A	Sample number(s): 6445463-6445471 BKG: 6445463								
17a pH by 9045C						6.58	6.60	0	3
Batch number: 11301162401B	Sample number(s): 6445463-6445471 BKG: 6445471								
Moisture Content by 160.3						8.8	8.8	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11295SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	96	97	84	89	92	102
6445464	88	91	81	82	85	93
6445465	95	97	82	84	86	96
6445466	88	90	81	83	86	96
6445467	88	91	75	85	86	96
6445468	91	93	70	83	83	98
6445469	89	92	69	84	86	95
6445470	87	89	71	79	82	96
6445471	91	94	70	83	84	99
Blank	86	90	84	86	88	99
LCS	89	90	91	85	88	101
MS	92	94	86	86	87	96
MSD	95	98	89	91	92	101
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11295SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	90	55	69
6445464	96	79	68
6445465	92	78	72
6445466	86	77	71
6445467	88	79	88
6445468	82	72	82
6445469	85	77	86
6445470	79	72	82
6445471	87	60	85
Blank	93	82	81
LCS	98	81	86
MS	100	83	84
MSD	97	80	80
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

6445463	119
6445464	90
6445465	91
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11300A20A

	Trifluorotoluene-F
6445473	86
Blank	88
LCS	117
LCSD	115
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6445463	110	121*
6445464	115	129*
6445465	117	131*
6445466	97	109
6445467	101	106
6445468	104	96
6445469	101	113
6445470	107	113
6445471	95	100
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112970037A

	Acetone
6445463	89
6445464	92
6445465	94
6445466	89
Blank	97
LCS	103
MS	94
MSD	95
Limits:	42-138

Analysis Name: 19a Glycols by 8015B

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

Batch number: 112980042A

	Tetramethylene glycol
6445463	88
6445464	88
6445465	86
6445466	87
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112990013A

	n-Triacontane-d62
6445463	86
6445464	78
6445465	75
6445466	93
Blank	76
LCS	76
MS	95
MSD	85
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113000011A

	Chlorobenzene	Orthoterphenyl
6445463	84	87
6445464	89	91
6445465	85	89
6445466	90	92
Blank	83	87
LCS	80	90
MS	85	75
MSD	88	81
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1272534 6445463-73

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-023-SA7-SB-2.5	10.20.11	0915	SOIL	NONE	2-Encores										X											
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-060-SA7-SB-3.0	10.20.11	1100	SOIL	NONE	2-Encores										X											
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-069-SA7-SB-3.0	10.20.11	1520	SOIL	NONE	2-Encores										X											
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	1-SS Sleeve			X	X																	
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-026-SA5DS-SB-4.0-5.0	10.20.11	1237	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
SL-026-SA5DS-SB-9.0-10.0	10.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-4.0-5.0	10.20.11	1001	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-9.0-10.0	10.20.11	0920	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-016-SA8S-SB-4.0-5.0	10.20.11	1508	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA5DS-SB-102011	10.20.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-DTP crew
TB-~~4012011~~ 102011 NLA 10/21/11	10.20.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/20/2011 / 1630	10/21/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8767 9858 7618,7629	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272728
SDG: DE277
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446809
SL-018-SA8S-SB-4.0-5.0 Soil	6446810
SL-018-SA8S-SB-4.0-5.0MS Soil	6446811
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446812
SL-018-SA8S-SB-4.0-5.0DUP Soil	6446813
SL-018-SA8S-SB-4.0-5.0RL MS Soil	6446814
SL-018-SA8S-SB-4.0-5.0RL LCS Soil	6446815
SL-018-SA8S-SB-7.5-8.5 Soil	6446816
DUP02-SA8S-QC-102111 Soil	6446817
SL-065-SA7-SB-2.0-3.0 Soil	6446818
SL-014-SA8S-SB-4.0-5.0 Soil	6446819
SL-014-SA8S-SB-7.0-8.0 Soil	6446820
SL-015-SA8S-SB-4.0-5.0 Soil	6446821
SL-015-SA8S-SB-9.0-10.0 Soil	6446822

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	50		6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,400		6.51	21.5	1
07914	Boron	7440-42-8	11.5		0.387	5.38	1
01650	Calcium	7440-70-2	5,480		2.69	21.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,700		14.0	108	5
01656	Lithium	7439-93-2	27.9		0.67	2.2	1
01657	Magnesium	7439-95-4	6,630		0.474	10.8	1
06958	Manganese	7439-96-5	299		0.0387	0.538	1
10145	Phosphorus	7723-14-0	399		0.377	10.8	1
01662	Potassium	7440-09-7	3,490		12.2	53.8	1
01667	Sodium	7440-23-5	94.3	J	6.40	108	1
07968	Strontium	7440-24-6	22.0		0.0269	0.538	1
06969	Tin	7440-31-5	2.80	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,200		0.0764	1.08	1
10146	Zirconium	7440-67-7	6.32		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0789	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.70		0.0853	0.426	2
06126	Barium	7440-39-3	74.8		0.113	0.426	2
06127	Beryllium	7440-41-7	0.757		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.159		0.0469	0.107	2
06131	Chromium	7440-47-3	28.5		0.128	0.426	2
06132	Cobalt	7440-48-4	9.96		0.0213	0.107	2
06133	Copper	7440-50-8	15.0		0.0853	0.426	2
06135	Lead	7439-92-1	8.87		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.555		0.0533	0.107	2
06139	Nickel	7440-02-0	17.7		0.107	0.426	2
06141	Selenium	7782-49-2	0.233	J	0.0618	0.426	2
06142	Silver	7440-22-4	0.0315	J	0.0151	0.107	2
06145	Thallium	7440-28-0	0.291		0.0320	0.107	2
06148	Vanadium	7440-62-2	48.3		0.0234	0.107	2
06149	Zinc	7440-66-6	68.2		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 02:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:45	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:35	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.51	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.80	J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		6.63	21.9	1
07914	Boron	7440-42-8	10.9		0.394	5.48	1
01650	Calcium	7440-70-2	14,300		2.74	21.9	1
01654	Iron	7439-89-6	28,600		14.3	110	5
01656	Lithium	7439-93-2	29.1		0.68	2.2	1
01657	Magnesium	7439-95-4	5,660		0.482	11.0	1
06958	Manganese	7439-96-5	315		0.0394	0.548	1
10145	Phosphorus	7723-14-0	187		0.383	11.0	1
01662	Potassium	7440-09-7	2,950		12.4	54.8	1
01667	Sodium	7440-23-5	84.3	J	6.52	110	1
07968	Strontium	7440-24-6	21.8		0.0274	0.548	1
06969	Tin	7440-31-5	3.05	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,190		0.0778	1.10	1
10146	Zirconium	7440-67-7	5.59		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0827	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40		0.0894	0.447	2
06126	Barium	7440-39-3	122		0.118	0.447	2
06127	Beryllium	7440-41-7	0.920		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0985	J	0.0492	0.112	2
06131	Chromium	7440-47-3	28.6		0.134	0.447	2
06132	Cobalt	7440-48-4	8.56		0.0223	0.112	2
06133	Copper	7440-50-8	12.7		0.0894	0.447	2
06135	Lead	7439-92-1	8.34		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.596		0.0559	0.112	2
06139	Nickel	7440-02-0	17.1		0.112	0.447	2
06141	Selenium	7782-49-2	0.0883	J	0.0648	0.447	2
06142	Silver	7440-22-4	0.0334	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.357		0.0335	0.112	2
06148	Vanadium	7440-62-2	55.5		0.0246	0.112	2
06149	Zinc	7440-66-6	59.7		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168	J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.87	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:23	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:05	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:00	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 12:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,400		190	560	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	530	J	190	560	1
04688	Benzyl alcohol	100-51-6	1,800		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190	1
04688	4-Chloroaniline	106-47-8	1,200		74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	190	1
04688	Chrysene	218-01-9	1,700		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	190	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		190	560	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	370	1
04688	Fluoranthene	206-44-0	1,900		19	190	1
04688	Fluorene	86-73-7	1,800		19	190	1
04688	Hexachlorobenzene	118-74-1	1,800		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700		74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560	1
04688	Hexachloroethane	67-72-1	1,500		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190	1
04688	2-Methylphenol	95-48-7	1,800	37	190	1
04688	4-Methylphenol	106-44-5	1,800	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,500	74	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,600	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.74	1.9	1
10138	Acenaphthylene	208-96-8	32	0.37	1.9	1
10138	Anthracene	120-12-7	34	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	34	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	34	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	35	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	36	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	36	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	39	6.7	20	1
10138	Chrysene	218-01-9	34	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.74	1.9	1
10138	Diethylphthalate	84-66-2	36	6.7	20	1
10138	Dimethylphthalate	131-11-3	36	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	6.7	20	1
10138	Fluoranthene	206-44-0	35	0.74	1.9	1
10138	Fluorene	86-73-7	35	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	31	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.74	1.9	1
10138	Naphthalene	91-20-3	31		0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	54		6.7	20	1
10138	Phenanthrene	85-01-8	33		0.74	1.9	1
10138	Pyrene	129-00-0	34		0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	20		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	4.6		0.37	1.9	1
10225	PCB-1260	11096-82-5	21		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		6.63	21.9	1
07914	Boron	7440-42-8	220		0.394	5.48	1
01650	Calcium	7440-70-2	14,100		2.74	21.9	1
01654	Iron	7439-89-6	31,200		14.3	110	5
01656	Lithium	7439-93-2	142		0.68	2.2	1
01657	Magnesium	7439-95-4	6,220		0.482	11.0	1
06958	Manganese	7439-96-5	338		0.0394	0.548	1
10145	Phosphorus	7723-14-0	282		0.383	11.0	1
01662	Potassium	7440-09-7	4,610		12.4	54.8	1
01667	Sodium	7440-23-5	1,180		6.52	110	1
07968	Strontium	7440-24-6	131		0.0274	0.548	1
06969	Tin	7440-31-5	357		0.351	11.0	1
06970	Titanium	7440-32-6	1,430		0.0778	1.10	1
10146	Zirconium	7440-67-7	111		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.476		0.0803	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.19		0.0868	0.434	2
06126	Barium	7440-39-3	126		0.115	0.434	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.70	0.0174	0.108	2
06128	Cadmium	7440-43-9	1.23	0.0477	0.108	2
06131	Chromium	7440-47-3	38.1	0.130	0.434	2
06132	Cobalt	7440-48-4	63.1	0.0217	0.108	2
06133	Copper	7440-50-8	23.1	0.0868	0.434	2
06135	Lead	7439-92-1	11.6	0.0111	0.217	2
06138	Molybdenum	7439-98-7	10.8	0.0542	0.108	2
06139	Nickel	7440-02-0	27.1	0.108	0.434	2
06141	Selenium	7782-49-2	2.07	0.0629	0.434	2
06142	Silver	7440-22-4	11.3	0.0154	0.108	2
06145	Thallium	7440-28-0	0.755	0.0325	0.108	2
06148	Vanadium	7440-62-2	64.2	0.0239	0.108	2
06149	Zinc	7440-66-6	66.9	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.0	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	587	10.1	33.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:49	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:38	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:57	Jessica L Miller	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11313621201A	11/09/2011 15:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 13:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11306621203B	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,900		18	180	1
04688	Aniline	62-53-3	1,300		180	550	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180	1
04688	Benzoic acid	65-85-0	530	J	180	550	1
04688	Benzyl alcohol	100-51-6	1,800		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180	1
04688	Carbazole	86-74-8	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180	1
04688	4-Chloroaniline	106-47-8	1,200		74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,700		18	180	1
04688	2-Chlorophenol	95-57-8	1,800		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	370	1
04688	Fluoranthene	206-44-0	1,900		18	180	1
04688	Fluorene	86-73-7	1,800		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600		74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,100		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180	1
04688	Isophorone	78-59-1	1,800		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,800	18	180	1
04688	2-Methylphenol	95-48-7	1,800	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,800	37	180	1
04688	4-Nitroaniline	100-01-6	1,600	74	180	1
04688	Nitrobenzene	98-95-3	1,800	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,700	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	550	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,800	18	180	1
04688	Pyrene	129-00-0	1,700	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8	1
10138	Acenaphthylene	208-96-8	34	0.37	1.8	1
10138	Anthracene	120-12-7	34	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	35	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	38	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	38	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	40	6.6	20	1
10138	Chrysene	218-01-9	35	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.73	1.8	1
10138	Diethylphthalate	84-66-2	37	6.6	20	1
10138	Dimethylphthalate	131-11-3	37	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54	6.6	20	1
10138	Fluoranthene	206-44-0	36	0.73	1.8	1
10138	Fluorene	86-73-7	36	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	32	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8	1
10138	Naphthalene	91-20-3	33		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	67		6.6	20	1
10138	Phenanthrene	85-01-8	34		0.73	1.8	1
10138	Pyrene	129-00-0	35		0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	23		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	6.2		0.37	1.9	1
10225	PCB-1260	11096-82-5	23		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		6.76	22.3	1
07914	Boron	7440-42-8	215		0.402	5.59	1
01650	Calcium	7440-70-2	14,600		2.79	22.3	1
01654	Iron	7439-89-6	25,500		2.92	22.3	1
01656	Lithium	7439-93-2	131		0.69	2.2	1
01657	Magnesium	7439-95-4	5,430		0.492	11.2	1
06958	Manganese	7439-96-5	344		0.0402	0.559	1
10145	Phosphorus	7723-14-0	296		0.391	11.2	1
01662	Potassium	7440-09-7	3,850		12.6	55.9	1
01667	Sodium	7440-23-5	1,120		6.65	112	1
07968	Strontium	7440-24-6	129		0.0279	0.559	1
06969	Tin	7440-31-5	359		0.358	11.2	1
06970	Titanium	7440-32-6	1,370		0.0793	1.12	1
10146	Zirconium	7440-67-7	104		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.470		0.0795	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.63		0.0859	0.430	2
06126	Barium	7440-39-3	113		0.114	0.430	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	1.54	0.0172	0.107	2
06128	Cadmium	7440-43-9	1.13	0.0473	0.107	2
06131	Chromium	7440-47-3	35.0	0.129	0.430	2
06132	Cobalt	7440-48-4	60.8	0.0215	0.107	2
06133	Copper	7440-50-8	22.3	0.0859	0.430	2
06135	Lead	7439-92-1	9.95	0.0110	0.215	2
06138	Molybdenum	7439-98-7	10.5	0.0537	0.107	2
06139	Nickel	7440-02-0	26.2	0.107	0.430	2
06141	Selenium	7782-49-2	2.17	0.0623	0.430	2
06142	Silver	7440-22-4	11.0	0.0153	0.107	2
06145	Thallium	7440-28-0	0.697	0.0322	0.107	2
06148	Vanadium	7440-62-2	61.0	0.0236	0.107	2
06149	Zinc	7440-66-6	64.5	0.602	3.22	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.203	0.0077	0.110	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:14	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:11	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.76	22.3	1
07914	Boron	7440-42-8	10.9		0.402	5.59	1
01650	Calcium	7440-70-2	12,400		2.79	22.3	1
01654	Iron	7439-89-6	30,600		14.6	112	5
01656	Lithium	7439-93-2	30.1		0.69	2.2	1
01657	Magnesium	7439-95-4	5,870		0.492	11.2	1
06958	Manganese	7439-96-5	357		0.0402	0.559	1
10145	Phosphorus	7723-14-0	184		0.391	11.2	1
01662	Potassium	7440-09-7	3,060		12.6	55.9	1
01667	Sodium	7440-23-5	84.8	J	6.65	112	1
07968	Strontium	7440-24-6	21.7		0.0279	0.559	1
06969	Tin	7440-31-5	3.22	J	0.358	11.2	1
06970	Titanium	7440-32-6	1,240		0.0793	1.12	1
10146	Zirconium	7440-67-7	7.16		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0900	J	0.0811	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.80		0.0876	0.438	2
06126	Barium	7440-39-3	126		0.116	0.438	2
06127	Beryllium	7440-41-7	0.909		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0833	J	0.0482	0.110	2
06131	Chromium	7440-47-3	28.2		0.131	0.438	2
06132	Cobalt	7440-48-4	8.78		0.0219	0.110	2
06133	Copper	7440-50-8	13.2		0.0876	0.438	2
06135	Lead	7439-92-1	8.21		0.0112	0.219	2
06138	Molybdenum	7439-98-7	0.561		0.0548	0.110	2
06139	Nickel	7440-02-0	17.5		0.110	0.438	2
06141	Selenium	7782-49-2	0.112	J	0.0635	0.438	2
06142	Silver	7440-22-4	0.0328	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.313		0.0329	0.110	2
06148	Vanadium	7440-62-2	55.9		0.0241	0.110	2
06149	Zinc	7440-66-6	59.4		0.613	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0228	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 13:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446814
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	3.0		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	2.8		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	10.5		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446815
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.0		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	5.5		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		6.53	21.6	1
07914	Boron	7440-42-8	3.99	J	0.389	5.40	1
01650	Calcium	7440-70-2	8,290		2.70	21.6	1
01654	Iron	7439-89-6	17,400		2.82	21.6	1
01656	Lithium	7439-93-2	23.9		0.67	2.2	1
01657	Magnesium	7439-95-4	3,170		0.475	10.8	1
06958	Manganese	7439-96-5	179		0.0389	0.540	1
10145	Phosphorus	7723-14-0	358		0.378	10.8	1
01662	Potassium	7440-09-7	1,680		12.2	54.0	1
01667	Sodium	7440-23-5	73.6	J	6.43	108	1
07968	Strontium	7440-24-6	21.2		0.0270	0.540	1
06969	Tin	7440-31-5	2.87	J	0.346	10.8	1
06970	Titanium	7440-32-6	986		0.0767	1.08	1
10146	Zirconium	7440-67-7	3.02	J	0.497	5.40	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0783	U	0.0783	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.24		0.0847	0.423	2
06126	Barium	7440-39-3	77.2		0.112	0.423	2
06127	Beryllium	7440-41-7	0.519		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0466	U	0.0466	0.106	2
06131	Chromium	7440-47-3	12.7		0.127	0.423	2
06132	Cobalt	7440-48-4	5.54		0.0212	0.106	2
06133	Copper	7440-50-8	6.42		0.0847	0.423	2
06135	Lead	7439-92-1	4.81		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.393		0.0529	0.106	2
06139	Nickel	7440-02-0	7.43		0.106	0.423	2
06141	Selenium	7782-49-2	0.0614	U	0.0614	0.423	2
06142	Silver	7440-22-4	0.0258	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.242		0.0318	0.106	2
06148	Vanadium	7440-62-2	31.5		0.0233	0.106	2
06149	Zinc	7440-66-6	48.7		0.593	3.18	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:39	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:19	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		6.51	21.5	1
07914	Boron	7440-42-8	9.11		0.387	5.38	1
01650	Calcium	7440-70-2	26,100		2.69	21.5	1
01654	Iron	7439-89-6	27,000		2.81	21.5	1
01656	Lithium	7439-93-2	27.4		0.67	2.2	1
01657	Magnesium	7439-95-4	5,210		0.473	10.8	1
06958	Manganese	7439-96-5	363		0.0387	0.538	1
10145	Phosphorus	7723-14-0	219		0.376	10.8	1
01662	Potassium	7440-09-7	3,050		12.2	53.8	1
01667	Sodium	7440-23-5	83.1	J	6.40	108	1
07968	Strontium	7440-24-6	23.4		0.0269	0.538	1
06969	Tin	7440-31-5	2.70	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,090		0.0764	1.08	1
10146	Zirconium	7440-67-7	5.19	J	0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0820	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72		0.0886	0.443	2
06126	Barium	7440-39-3	114		0.117	0.443	2
06127	Beryllium	7440-41-7	0.862		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0919	J	0.0487	0.111	2
06131	Chromium	7440-47-3	26.8		0.133	0.443	2
06132	Cobalt	7440-48-4	7.19		0.0221	0.111	2
06133	Copper	7440-50-8	11.7		0.0886	0.443	2
06135	Lead	7439-92-1	7.48		0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.550		0.0554	0.111	2
06139	Nickel	7440-02-0	15.5		0.111	0.443	2
06141	Selenium	7782-49-2	0.162	J	0.0642	0.443	2
06142	Silver	7440-22-4	0.0444	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.285		0.0332	0.111	2
06148	Vanadium	7440-62-2	51.7		0.0244	0.111	2
06149	Zinc	7440-66-6	52.8		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0271	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:04	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:52	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.24	20.6	1
07914	Boron	7440-42-8	4.54	J	0.371	5.16	1
01650	Calcium	7440-70-2	4,150		2.58	20.6	1
01654	Iron	7439-89-6	20,800		2.69	20.6	1
01656	Lithium	7439-93-2	25.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,780		0.454	10.3	1
06958	Manganese	7439-96-5	278		0.0371	0.516	1
10145	Phosphorus	7723-14-0	334		0.361	10.3	1
01662	Potassium	7440-09-7	2,510		11.7	51.6	1
01667	Sodium	7440-23-5	82.4	J	6.14	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.516	1
06969	Tin	7440-31-5	2.70	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,040		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.99	J	0.474	5.16	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0734	U	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0794	0.397	2
06126	Barium	7440-39-3	68.1		0.105	0.397	2
06127	Beryllium	7440-41-7	0.505		0.0159	0.0992	2
06128	Cadmium	7440-43-9	0.0859	J	0.0437	0.0992	2
06131	Chromium	7440-47-3	15.6		0.119	0.397	2
06132	Cobalt	7440-48-4	5.17		0.0198	0.0992	2
06133	Copper	7440-50-8	7.95		0.0794	0.397	2
06135	Lead	7439-92-1	4.72		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.357		0.0496	0.0992	2
06139	Nickel	7440-02-0	9.90		0.0992	0.397	2
06141	Selenium	7782-49-2	0.0800	J	0.0575	0.397	2
06142	Silver	7440-22-4	0.0177	J	0.0141	0.0992	2
06145	Thallium	7440-28-0	0.258		0.0298	0.0992	2
06148	Vanadium	7440-62-2	31.9		0.0218	0.0992	2
06149	Zinc	7440-66-6	53.9		0.556	2.98	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.84	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.01		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:30	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:25	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:05	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.38	21.1	1
07914	Boron	7440-42-8	11.5		0.380	5.28	1
01650	Calcium	7440-70-2	60,400		13.2	106	5
01654	Iron	7439-89-6	25,500		2.75	21.1	1
01656	Lithium	7439-93-2	24.6		0.65	2.1	1
01657	Magnesium	7439-95-4	5,750		0.464	10.6	1
06958	Manganese	7439-96-5	366		0.0380	0.528	1
10145	Phosphorus	7723-14-0	490		0.369	10.6	1
01662	Potassium	7440-09-7	2,980		11.9	52.8	1
01667	Sodium	7440-23-5	88.7	J	6.28	106	1
07968	Strontium	7440-24-6	62.5		0.0264	0.528	1
06969	Tin	7440-31-5	2.50	J	0.338	10.6	1
06970	Titanium	7440-32-6	964		0.0749	1.06	1
10146	Zirconium	7440-67-7	3.69	J	0.485	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.54		0.0828	0.414	2
06126	Barium	7440-39-3	87.1		0.110	0.414	2
06127	Beryllium	7440-41-7	0.676		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.203		0.0455	0.104	2
06131	Chromium	7440-47-3	24.8		0.124	0.414	2
06132	Cobalt	7440-48-4	7.79		0.0207	0.104	2
06133	Copper	7440-50-8	13.3		0.0828	0.414	2
06135	Lead	7439-92-1	7.86		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.405		0.0518	0.104	2
06139	Nickel	7440-02-0	14.3		0.104	0.414	2
06141	Selenium	7782-49-2	0.245	J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0205	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.288		0.0311	0.104	2
06148	Vanadium	7440-62-2	45.1		0.0228	0.104	2
06149	Zinc	7440-66-6	60.1		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:56	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:58	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:24	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:47	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/31/2011 06:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 15:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	44		6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.53	21.6	1
07914	Boron	7440-42-8	11.8		0.389	5.40	1
01650	Calcium	7440-70-2	110,000		13.5	108	5
01654	Iron	7439-89-6	23,500		2.82	21.6	1
01656	Lithium	7439-93-2	23.6		0.67	2.2	1
01657	Magnesium	7439-95-4	5,890		0.475	10.8	1
06958	Manganese	7439-96-5	398		0.0389	0.540	1
10145	Phosphorus	7723-14-0	481		0.378	10.8	1
01662	Potassium	7440-09-7	3,260		12.2	54.0	1
01667	Sodium	7440-23-5	122		6.42	108	1
07968	Strontium	7440-24-6	107		0.0270	0.540	1
06969	Tin	7440-31-5	2.40	J	0.346	10.8	1
06970	Titanium	7440-32-6	963		0.0767	1.08	1
10146	Zirconium	7440-67-7	4.20	J	0.497	5.40	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0807	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.73		0.0872	0.436	2
06126	Barium	7440-39-3	92.4		0.116	0.436	2
06127	Beryllium	7440-41-7	0.659		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.233		0.0480	0.109	2
06131	Chromium	7440-47-3	26.1		0.131	0.436	2
06132	Cobalt	7440-48-4	7.85		0.0218	0.109	2
06133	Copper	7440-50-8	14.5		0.0872	0.436	2
06135	Lead	7439-92-1	8.44		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.364		0.0545	0.109	2
06139	Nickel	7440-02-0	15.7		0.109	0.436	2
06141	Selenium	7782-49-2	0.206	J	0.0632	0.436	2
06142	Silver	7440-22-4	0.0180	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.281		0.0327	0.109	2
06148	Vanadium	7440-62-2	45.8		0.0240	0.109	2
06149	Zinc	7440-66-6	58.6		0.611	3.27	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0076	0.108	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.22		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:21	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 10:31	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:50	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.59	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.24	20.6	1
07914	Boron	7440-42-8	12.8		0.371	5.15	1
01650	Calcium	7440-70-2	72,800		12.9	103	5
01654	Iron	7439-89-6	23,200		2.69	20.6	1
01656	Lithium	7439-93-2	23.2		0.64	2.1	1
01657	Magnesium	7439-95-4	5,900		0.454	10.3	1
06958	Manganese	7439-96-5	433		0.0371	0.515	1
10145	Phosphorus	7723-14-0	512		0.361	10.3	1
01662	Potassium	7440-09-7	3,310		11.6	51.5	1
01667	Sodium	7440-23-5	92.9	J	6.13	103	1
07968	Strontium	7440-24-6	72.6		0.0258	0.515	1
06969	Tin	7440-31-5	2.25	J	0.330	10.3	1
06970	Titanium	7440-32-6	893		0.0732	1.03	1
10146	Zirconium	7440-67-7	3.57	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0770	U	0.0770	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.76		0.0833	0.416	2
06126	Barium	7440-39-3	95.7		0.110	0.416	2
06127	Beryllium	7440-41-7	0.619		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.239		0.0458	0.104	2
06131	Chromium	7440-47-3	26.2		0.125	0.416	2
06132	Cobalt	7440-48-4	7.94		0.0208	0.104	2
06133	Copper	7440-50-8	13.2		0.0833	0.416	2
06135	Lead	7439-92-1	7.59		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.385		0.0520	0.104	2
06139	Nickel	7440-02-0	15.2		0.104	0.416	2
06141	Selenium	7782-49-2	0.224	J	0.0604	0.416	2
06142	Silver	7440-22-4	0.0154	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.314		0.0312	0.104	2
06148	Vanadium	7440-62-2	45.2		0.0229	0.104	2
06149	Zinc	7440-66-6	62.7		0.583	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.95		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:46	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:04	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:54	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.78	22.4	1
07914	Boron	7440-42-8	12.9		0.404	5.61	1
01650	Calcium	7440-70-2	92,700		14.0	112	5
01654	Iron	7439-89-6	25,200		2.93	22.4	1
01656	Lithium	7439-93-2	24.4		0.70	2.2	1
01657	Magnesium	7439-95-4	6,540		0.493	11.2	1
06958	Manganese	7439-96-5	375		0.0404	0.561	1
10145	Phosphorus	7723-14-0	517		0.392	11.2	1
01662	Potassium	7440-09-7	3,020		12.7	56.1	1
01667	Sodium	7440-23-5	116		6.67	112	1
07968	Strontium	7440-24-6	97.7		0.0280	0.561	1
06969	Tin	7440-31-5	2.59	J	0.359	11.2	1
06970	Titanium	7440-32-6	881		0.0796	1.12	1
10146	Zirconium	7440-67-7	4.87	J	0.516	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0813	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.29		0.0879	0.440	2
06126	Barium	7440-39-3	91.4		0.117	0.440	2
06127	Beryllium	7440-41-7	0.751		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.255		0.0484	0.110	2
06131	Chromium	7440-47-3	29.6		0.132	0.440	2
06132	Cobalt	7440-48-4	8.51		0.0220	0.110	2
06133	Copper	7440-50-8	15.0		0.0879	0.440	2
06135	Lead	7439-92-1	9.03		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.381		0.0550	0.110	2
06139	Nickel	7440-02-0	16.2		0.110	0.440	2
06141	Selenium	7782-49-2	0.436	J	0.0637	0.440	2
06142	Silver	7440-22-4	0.0213	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.284		0.0330	0.110	2
06148	Vanadium	7440-62-2	51.1		0.0242	0.110	2
06149	Zinc	7440-66-6	59.8		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/28/2011 00:11	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:37	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:58	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	106		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	86		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		74-115		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	37		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	75		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	95		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	103		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		

Batch number: 11299SLF026 Sample number(s): 6446809-6446812,6446816-6446822

Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	111		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11313621201A	Sample number(s): 6446811									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
17a pH by 9045C						100		95-105		
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	97	95	75-115	2	30				
Acenaphthylene	104	104	81-110	0	30				
Aniline	75	70	18-116	8	30				
Anthracene	100	97	75-115	4	30				
Benzidine	27*	27*	35-141	2	30				
Benzo(a)anthracene	93	95	65-122	1	30				
Benzo(a)pyrene	102	99	57-126	3	30				
Benzo(b)fluoranthene	101	98	59-125	4	30				
Benzo(g,h,i)perylene	96	95	59-127	1	30				
Benzo(k)fluoranthene	104	103	56-132	2	30				
Benzoic acid	28	29	10-173	0	30				
Benzyl alcohol	96	95	67-115	1	30				
4-Bromophenyl-phenylether	96	91	67-129	6	30				
Butylbenzylphthalate	96	98	73-134	1	30				
Di-n-butylphthalate	98	97	67-123	2	30				
Carbazole	96	96	64-120	1	30				
4-Chloro-3-methylphenol	99	99	62-122	0	30				
4-Chloroaniline	66	66	13-107	1	30				

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	98	98	75-104	1	30				
bis(2-Chloroethyl)ether	91	89	60-116	3	30				
bis(2-Chloroisopropyl)ether	89	86	55-142	4	30				
2-Chloronaphthalene	84	91	50-141	8	30				
2-Chlorophenol	98	96	73-121	3	30				
4-Chlorophenyl-phenylether	97	95	80-109	2	30				
Chrysene	90	92	62-128	1	30				
Dibenz(a,h)anthracene	96	94	65-125	2	30				
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	85	85	66-108	1	30				
1,3-Dichlorobenzene	81	81	63-109	0	30				
1,4-Dichlorobenzene	83	83	58-108	0	30				
3,3'-Dichlorobenzidine	48	49	28-109	1	30				
2,4-Dichlorophenol	101	98	66-123	3	30				
Diethylphthalate	96	97	66-118	0	30				
2,4-Dimethylphenol	99	96	68-118	4	30				
3,5-Dimethylphenol	105	103	71-127	3	30				
Dimethylphthalate	98	98	64-118	1	30				
4,6-Dinitro-2-methylphenol	67	69	11-126	2	30				
2,4-Dinitrophenol	40	40	20-143	0	30				
2,4-Dinitrotoluene	97	101	56-129	4	30				
2,6-Dinitrotoluene	101	102	69-123	1	30				
1,2-Diphenylhydrazine	100	95	71-129	6	30				
bis(2-Ethylhexyl)phthalate	93	95	63-122	1	30				
Fluoranthene	101	103	73-112	2	30				
Fluorene	97	98	63-121	1	30				
Hexachlorobenzene	96	93	77-114	4	30				
Hexachlorobutadiene	91	88	62-120	4	30				
Hexachlorocyclopentadiene	90	85	10-153	6	30				
Hexachloroethane	80	80	57-109	0	30				
Indeno(1,2,3-cd)pyrene	97	95	61-126	2	30				
Isophorone	97	96	73-102	1	30				
1-Methylnaphthalene	93	92	64-122	1	30				
2-Methylnaphthalene	97	96	76-114	1	30				
2-Methylphenol	99	96	75-111	3	30				
4-Methylphenol	97	94	59-123	4	30				
Naphthalene	93	92	72-116	2	30				
2-Nitroaniline	100	100	67-125	1	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	81	85	41-109	5	30				
Nitrobenzene	95	95	57-125	1	30				
2-Nitrophenol	93	93	56-127	0	30				
4-Nitrophenol	88	94	37-129	6	30				
N-Nitroso-di-n-propylamine	90	87	60-116	4	30				
N-Nitrosodimethylamine	86	87	47-116	1	30				
N-Nitrosodiphenylamine	99	95	71-122	5	30				
Di-n-octylphthalate	108	106	56-126	2	30				
Pentachlorophenol	84	80	28-127	6	30				
Phenanthrene	97	95	65-125	3	30				
Phenol	102	99	58-126	4	30				
Pyrene	96	94	74-126	3	30				
1,2,4-Trichlorobenzene	92	91	72-115	1	30				
2,4,5-Trichlorophenol	95	93	58-129	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	97	96	56-134	2	30				
Batch number: 11299SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	87	94	63-105	6	30				
Acenaphthylene	85	92	67-114	6	30				
Anthracene	90	94	73-115	3	30				
Benzo(a)anthracene	92	98	59-128	4	30				
Benzo(a)pyrene	91	96	58-142	3	30				
Benzo(b)fluoranthene	93	99	54-163	5	30				
Benzo(g,h,i)perylene	91	93	33-141	1	30				
Benzo(k)fluoranthene	98	103	57-153	4	30				
Butylbenzylphthalate	97	105	57-173	6	30				
Di-n-butylphthalate	105	109	65-148	2	30				
Chrysene	91	96	67-123	3	30				
Dibenz(a,h)anthracene	95	98	22-133	1	30				
Diethylphthalate	98	101	70-136	2	30				
Dimethylphthalate	97	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	148	39-167	9	30				
Fluoranthene	95	99	51-149	3	30				
Fluorene	95	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	94	97	21-143	1	30				
1-Methylnaphthalene	83	88	72-123	4	30				
2-Methylnaphthalene	82	87	64-103	5	30				
Naphthalene	84	90	61-102	5	30				
N-Nitrosodimethylamine	86	93	48-113	6	30				
Di-n-octylphthalate	145	182	40-192	21	30				
Phenanthrene	88	93	62-122	4	30				
Pyrene	92	97	51-131	4	30				
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822 UNSPK: 6446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Barium	43 (2)	-80 (2)	75-125	11	20	109	113	3	20
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400	28,100	2	20
Boron	96	92	84-115	2	20	9.74	9.76	0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800	11,100	14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600	27,400	7	20
Lithium	103	91	82-114	8	20	26.0	27.0	4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070	5,250	4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282	320	13	20
Phosphorus	87	98	75-125	5	20	168	165	2	20
Potassium	151*	80	75-125	18	20	2,640	2,740	3	20
Sodium	100	93	75-125	6	20	75.4 J	75.9 J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6	19.5	0	20
Tin	81	80	80-110	1	20	2.73 J	2.88 J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070	1,110	4	20
Zirconium	96	88	81-110	6	20	5.00	6.41	25* (1)	20
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Mercury	95	102	65-135	9	20	0.0150 J	0.0204 J	30* (1)	20
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
3a Cr VI by EPA 7199	94		75-125			0.21 J	0.56 J	90* (1)	20
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
11a Anions by 300.0 - Fluoride	76*		80-120			1.3	1.3	0 (1)	20
Batch number: 11313621201A	Sample number(s): 6446811 UNSPK: P462616 BKG: P462616								
11a Anions by 300.0 - Fluoride	88		80-120			0.80 U	1.3	200* (1)	20
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 BKG: 6446810								
17a pH by 9045C						7.87	7.91	1	3
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822 BKG: 6446810								
28a Moisture Content by 160.3						10.5	10.7	1	20
Moisture Content by 160.3						10.5	10.7	1	20
Moisture Content by 160.3						10.5	10.7	1	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11297SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	94	97	80	89	92	98
6446810	89	93	82	88	88	98
6446811	94	97	83	91	91	96
6446812	94	97	87	91	91	97
6446816	91	95	85	89	90	98
6446817	78	80	71	74	75	84
6446818	90	94	80	86	88	96
6446819	91	94	81	89	91	94
6446820	90	92	81	84	86	95
6446821	93	95	84	86	88	94
6446822	92	94	85	88	89	96
Blank	92	97	83	92	93	103
LCS	95	99	88	92	93	99
MS	94	97	83	91	91	96
MSD	94	97	87	91	91	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11299SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	91	87	94
6446810	84	80	87
6446811	88	84	89
6446812	94	87	91
6446816	91	86	95
6446817	85	84	90
6446818	91	86	91
6446819	91	87	91
6446820	92	87	90
6446821	91	88	94
6446822	88	84	88
Blank	97	95	102
LCS	92	87	90
MS	88	84	89
MSD	94	87	91
Limits:	67-129	63-129	51-141

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6446809	106	111
6446810	112	124*
6446811	108	109
6446812	104	118
6446814	120	141*
6446815	98	113

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

6446816	108	124*
6446817	217*	247*
6446818	109	120
6446819	96	117
6446820	102	133*
6446821	99	113
6446822	116	130*
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1272728 Sample# 6446809-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber														X							HGL ASTM II WATER-DPTcrew
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272729
SDG: DX152
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446825
SL-018-SA8S-SB-4.0-5.0 Soil	6446826
SL-018-SA8S-SB-4.0-5.0MS Soil	6446827
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446828
SL-018-SA8S-SB-7.5-8.5 Soil	6446829
DUP02-SA8S-QC-102111 Soil	6446830
SL-065-SA7-SB-2.0-3.0 Soil	6446831
SL-014-SA8S-SB-4.0-5.0 Soil	6446832
SL-014-SA8S-SB-7.0-8.0 Soil	6446833
SL-015-SA8S-SB-4.0-5.0 Soil	6446834
SL-015-SA8S-SB-9.0-10.0 Soil	6446835

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0210 U	0.0210	1.06	1
11031	12378-PeCDD	40321-76-4	0.0221 U	0.0221	5.31	1
11031	123478-HxCDD	39227-28-6	0.0181 U	0.0181	5.31	1
11031	123678-HxCDD	57653-85-7	0.0497 JBQ	0.0184	5.31	1
11031	123789-HxCDD	19408-74-3	0.0529 JBQ	0.0183	5.31	1
11031	1234678-HpCDD	35822-46-9	0.257 JB	0.0249	5.31	1
11031	OCDD	3268-87-9	0.605 JB	0.0304	10.6	1
11031	2378-TCDF	51207-31-9	0.0192 U	0.0192	1.06	1
11031	12378-PeCDF	57117-41-6	0.0279 JB	0.0141	5.31	1
11031	23478-PeCDF	57117-31-4	0.0470 JB	0.0144	5.31	1
11031	123478-HxCDF	70648-26-9	0.0490 JBQ	0.0154	5.31	1
11031	123678-HxCDF	57117-44-9	0.0296 JBQ	0.0117	5.31	1
11031	123789-HxCDF	72918-21-9	0.0615 JBQ	0.0122	5.31	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.0108	5.31	1
11031	1234678-HpCDF	67562-39-4	0.140 JB	0.0111	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0257 JBQ	0.0146	5.31	1
11031	OCDF	39001-02-0	0.149 JB	0.0234	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 02:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0263 U	0.0263	1.11	1
11031	12378-PeCDD	40321-76-4	0.0308 U	0.0308	5.56	1
11031	123478-HxCDD	39227-28-6	0.0229 JBQ	0.0184	5.56	1
11031	123678-HxCDD	57653-85-7	0.0187 U	0.0187	5.56	1
11031	123789-HxCDD	19408-74-3	0.0178 U	0.0178	5.56	1
11031	1234678-HpCDD	35822-46-9	0.226 JBQ	0.0219	5.56	1
11031	OCDD	3268-87-9	1.04 JB	0.0330	11.1	1
11031	2378-TCDF	51207-31-9	0.0257 U	0.0257	1.11	1
11031	12378-PeCDF	57117-41-6	0.0171 U	0.0171	5.56	1
11031	23478-PeCDF	57117-31-4	0.0480 JBQ	0.0179	5.56	1
11031	123478-HxCDF	70648-26-9	0.0341 JBQ	0.0161	5.56	1
11031	123678-HxCDF	57117-44-9	0.0279 JB	0.0141	5.56	1
11031	123789-HxCDF	72918-21-9	0.0151 U	0.0151	5.56	1
11031	234678-HxCDF	60851-34-5	0.0260 JBQ	0.0124	5.56	1
11031	1234678-HpCDF	67562-39-4	0.142 JB	0.0104	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0336 JBQ	0.0143	5.56	1
11031	OCDF	39001-02-0	0.173 JBQ	0.0280	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 03:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0299	1.09	1
11031	12378-PeCDD	40321-76-4	98.6	B	0.0431	5.45	1
11031	123478-HxCDD	39227-28-6	97.6	B	0.0332	5.45	1
11031	123678-HxCDD	57653-85-7	97.4	B	0.0341	5.45	1
11031	123789-HxCDD	19408-74-3	108	B	0.0333	5.45	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0644	5.45	1
11031	OCDD	3268-87-9	201	B	0.0361	10.9	1
11031	2378-TCDF	51207-31-9	20.3	B	0.0494	1.09	1
11031	12378-PeCDF	57117-41-6	99.9	B	0.0344	5.45	1
11031	23478-PeCDF	57117-31-4	95.1	B	0.0334	5.45	1
11031	123478-HxCDF	70648-26-9	101	B	0.0645	5.45	1
11031	123678-HxCDF	57117-44-9	101	B	0.0542	5.45	1
11031	123789-HxCDF	72918-21-9	105	B	0.0600	5.45	1
11031	234678-HxCDF	60851-34-5	96.6	B	0.0512	5.45	1
11031	1234678-HpCDF	67562-39-4	92.7	B	0.0413	5.45	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0577	5.45	1
11031	OCDF	39001-02-0	203	B	0.0391	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 04:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0442	1.10	1
11031	12378-PeCDD	40321-76-4	103	B	0.0403	5.49	1
11031	123478-HxCDD	39227-28-6	102	B	0.0534	5.49	1
11031	123678-HxCDD	57653-85-7	99.5	B	0.0544	5.49	1
11031	123789-HxCDD	19408-74-3	106	B	0.0495	5.49	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0684	5.49	1
11031	OCDD	3268-87-9	196	B	0.0422	11.0	1
11031	2378-TCDF	51207-31-9	20.5	B	0.0526	1.10	1
11031	12378-PeCDF	57117-41-6	98.7	B	0.0372	5.49	1
11031	23478-PeCDF	57117-31-4	95.5	B	0.0368	5.49	1
11031	123478-HxCDF	70648-26-9	100	B	0.0759	5.49	1
11031	123678-HxCDF	57117-44-9	102	B	0.0630	5.49	1
11031	123789-HxCDF	72918-21-9	102	B	0.0523	5.49	1
11031	234678-HxCDF	60851-34-5	99.7	B	0.0456	5.49	1
11031	1234678-HpCDF	67562-39-4	93.4	B	0.0589	5.49	1
11031	1234789-HpCDF	55673-89-7	98.6	B	0.0668	5.49	1
11031	OCDF	39001-02-0	205	B	0.0493	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 05:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275 U	0.0275	1.07	1
11031	12378-PeCDD	40321-76-4	0.0308 JBQ	0.0275	5.34	1
11031	123478-HxCDD	39227-28-6	0.0541 JBQ	0.0220	5.34	1
11031	123678-HxCDD	57653-85-7	0.0639 JB	0.0227	5.34	1
11031	123789-HxCDD	19408-74-3	0.0335 JBQ	0.0208	5.34	1
11031	1234678-HpCDD	35822-46-9	0.184 JBQ	0.0256	5.34	1
11031	OCDD	3268-87-9	0.489 JB	0.0336	10.7	1
11031	2378-TCDF	51207-31-9	0.0341 U	0.0341	1.07	1
11031	12378-PeCDF	57117-41-6	0.0509 JBQ	0.0174	5.34	1
11031	23478-PeCDF	57117-31-4	0.0758 JB	0.0176	5.34	1
11031	123478-HxCDF	70648-26-9	0.0575 JBQ	0.0207	5.34	1
11031	123678-HxCDF	57117-44-9	0.0452 JBQ	0.0162	5.34	1
11031	123789-HxCDF	72918-21-9	0.0557 JBQ	0.0173	5.34	1
11031	234678-HxCDF	60851-34-5	0.0667 JB	0.0143	5.34	1
11031	1234678-HpCDF	67562-39-4	0.136 JB	0.0114	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0176	5.34	1
11031	OCDF	39001-02-0	0.246 JBQ	0.0323	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 06:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243 U	0.0243	1.10	1
11031	12378-PeCDD	40321-76-4	0.0588 JB	0.0299	5.48	1
11031	123478-HxCDD	39227-28-6	0.0401 JBQ	0.0207	5.48	1
11031	123678-HxCDD	57653-85-7	0.0562 JBQ	0.0210	5.48	1
11031	123789-HxCDD	19408-74-3	0.0766 JBQ	0.0189	5.48	1
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0230	5.48	1
11031	OCDD	3268-87-9	0.563 JB	0.0341	11.0	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.10	1
11031	12378-PeCDF	57117-41-6	0.0565 JBQ	0.0166	5.48	1
11031	23478-PeCDF	57117-31-4	0.0699 JBQ	0.0180	5.48	1
11031	123478-HxCDF	70648-26-9	0.0763 JBQ	0.0197	5.48	1
11031	123678-HxCDF	57117-44-9	0.0378 JBQ	0.0164	5.48	1
11031	123789-HxCDF	72918-21-9	0.0635 JBQ	0.0174	5.48	1
11031	234678-HxCDF	60851-34-5	0.0628 JBQ	0.0151	5.48	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0116	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0401 JBQ	0.0155	5.48	1
11031	OCDF	39001-02-0	0.200 JB	0.0294	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	0.994	1
11031	12378-PeCDD	40321-76-4	0.109	JB	0.0250	4.97	1
11031	123478-HxCDD	39227-28-6	0.102	JBQ	0.0305	4.97	1
11031	123678-HxCDD	57653-85-7	0.199	JBQ	0.0308	4.97	1
11031	123789-HxCDD	19408-74-3	0.162	JBQ	0.0293	4.97	1
11031	1234678-HpCDD	35822-46-9	4.42	JB	0.0386	4.97	1
11031	OCDD	3268-87-9	42.6	B	0.0292	9.94	1
11031	2378-TCDF	51207-31-9	0.0253	U	0.0253	0.994	1
11031	12378-PeCDF	57117-41-6	0.173	JB	0.0249	4.97	1
11031	23478-PeCDF	57117-31-4	0.178	JB	0.0253	4.97	1
11031	123478-HxCDF	70648-26-9	1.17	JB	0.0413	4.97	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0358	4.97	1
11031	123789-HxCDF	72918-21-9	0.0732	JB	0.0411	4.97	1
11031	234678-HxCDF	60851-34-5	0.127	JBQ	0.0343	4.97	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0146	4.97	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0231	4.97	1
11031	OCDF	39001-02-0	3.79	JB	0.0335	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0364 JBQ	0.0269	1.06	1
11031	12378-PeCDD	40321-76-4	0.225 JB	0.0282	5.28	1
11031	123478-HxCDD	39227-28-6	0.112 JB	0.0208	5.28	1
11031	123678-HxCDD	57653-85-7	0.112 JBQ	0.0216	5.28	1
11031	123789-HxCDD	19408-74-3	0.0927 JBQ	0.0200	5.28	1
11031	1234678-HpCDD	35822-46-9	0.294 JB	0.0262	5.28	1
11031	OCDD	3268-87-9	0.521 JB	0.0294	10.6	1
11031	2378-TCDF	51207-31-9	0.0466 JBQ	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.0161	5.28	1
11031	23478-PeCDF	57117-31-4	0.192 JB	0.0167	5.28	1
11031	123478-HxCDF	70648-26-9	0.153 JBQ	0.0198	5.28	1
11031	123678-HxCDF	57117-44-9	0.146 JB	0.0164	5.28	1
11031	123789-HxCDF	72918-21-9	0.101 JBQ	0.0198	5.28	1
11031	234678-HxCDF	60851-34-5	0.108 JB	0.0165	5.28	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00947	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0817 JB	0.0144	5.28	1
11031	OCDF	39001-02-0	0.174 JB	0.0280	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 09:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.137	JBQ	0.0205	1.08	1
11031	12378-PeCDD	40321-76-4	0.312	JB	0.0275	5.40	1
11031	123478-HxCDD	39227-28-6	0.156	JB	0.0224	5.40	1
11031	123678-HxCDD	57653-85-7	0.135	JB	0.0216	5.40	1
11031	123789-HxCDD	19408-74-3	0.162	JB	0.0206	5.40	1
11031	1234678-HpCDD	35822-46-9	0.334	JB	0.0238	5.40	1
11031	OCDD	3268-87-9	0.627	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.137	JB	0.0200	1.08	1
11031	12378-PeCDF	57117-41-6	0.391	JB	0.0157	5.40	1
11031	23478-PeCDF	57117-31-4	0.353	JB	0.0165	5.40	1
11031	123478-HxCDF	70648-26-9	0.285	JBQ	0.0346	5.40	1
11031	123678-HxCDF	57117-44-9	0.236	JB	0.0257	5.40	1
11031	123789-HxCDF	72918-21-9	0.205	JBQ	0.0244	5.40	1
11031	234678-HxCDF	60851-34-5	0.156	JB	0.0195	5.40	1
11031	1234678-HpCDF	67562-39-4	0.237	JB	0.0139	5.40	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0173	5.40	1
11031	OCDF	39001-02-0	0.308	JBQ	0.0276	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0439 JQ	0.0251	1.08	1
11031	12378-PeCDD	40321-76-4	0.142 JQ	0.0260	5.39	1
11031	123478-HxCDD	39227-28-6	0.0475 JB	0.0213	5.39	1
11031	123678-HxCDD	57653-85-7	0.0751 JBQ	0.0222	5.39	1
11031	123789-HxCDD	19408-74-3	0.0631 JBQ	0.0212	5.39	1
11031	1234678-HpCDD	35822-46-9	0.297 JB	0.0223	5.39	1
11031	OCDD	3268-87-9	0.704 JB	0.0277	10.8	1
11031	2378-TCDF	51207-31-9	0.0507 JQ	0.0194	1.08	1
11031	12378-PeCDF	57117-41-6	0.130 JBQ	0.0124	5.39	1
11031	23478-PeCDF	57117-31-4	0.132 JBQ	0.0128	5.39	1
11031	123478-HxCDF	70648-26-9	0.0805 JB	0.0130	5.39	1
11031	123678-HxCDF	57117-44-9	0.0425 JB	0.0111	5.39	1
11031	123789-HxCDF	72918-21-9	0.0553 JBQ	0.0158	5.39	1
11031	234678-HxCDF	60851-34-5	0.0793 JB	0.0123	5.39	1
11031	1234678-HpCDF	67562-39-4	0.0947 JB	0.00898	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0393 J	0.0194	5.39	1
11031	OCDF	39001-02-0	0.233 JBQ	0.0421	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/05/2011 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0198 U	0.0198	1.10	1
11031	12378-PeCDD	40321-76-4	0.0958 JBQ	0.0247	5.48	1
11031	123478-HxCDD	39227-28-6	0.0461 JBQ	0.0175	5.48	1
11031	123678-HxCDD	57653-85-7	0.0523 JBQ	0.0178	5.48	1
11031	123789-HxCDD	19408-74-3	0.0465 JB	0.0182	5.48	1
11031	1234678-HpCDD	35822-46-9	0.248 JBQ	0.0217	5.48	1
11031	OCDD	3268-87-9	0.509 JB	0.0258	11.0	1
11031	2378-TCDF	51207-31-9	0.0269 JB	0.0178	1.10	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.0137	5.48	1
11031	23478-PeCDF	57117-31-4	0.114 JBQ	0.0142	5.48	1
11031	123478-HxCDF	70648-26-9	0.0940 JBQ	0.0145	5.48	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0131	5.48	1
11031	123789-HxCDF	72918-21-9	0.0482 JBQ	0.0151	5.48	1
11031	234678-HxCDF	60851-34-5	0.0588 JB	0.0121	5.48	1
11031	1234678-HpCDF	67562-39-4	0.106 JB	0.00919	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0557 JBQ	0.0137	5.48	1
11031	OCDF	39001-02-0	0.158 JBQ	0.0247	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 15:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835								
2378-TCDD	0.0738 J	0.0256	1.00	ng/kg	94		67-158		
12378-PeCDD	0.349 J	0.0297	5.00	ng/kg	91		70-142		
123478-HxCDD	0.147 J	0.0239	5.00	ng/kg	88		70-164		
123678-HxCDD	0.124 J	0.0230	5.00	ng/kg	91		76-134		
123789-HxCDD	0.145 J	0.0233	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.286 J	0.0210	5.00	ng/kg	93		70-140		
OCDD	0.418 J	0.0269	10.0	ng/kg	91		78-144		
2378-TCDF	0.0617 J	0.0236	1.00	ng/kg	93		75-158		
12378-PeCDF	0.328 J	0.0165	5.00	ng/kg	88		80-134		
23478-PeCDF	0.295 J	0.0166	5.00	ng/kg	86		68-160		
123478-HxCDF	0.197 J	0.0257	5.00	ng/kg	90		72-134		
123678-HxCDF	0.216 J	0.0212	5.00	ng/kg	90		84-130		
123789-HxCDF	0.174 J	0.0210	5.00	ng/kg	94		78-130		
234678-HxCDF	0.159 J	0.0196	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.172 J	0.0113	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0917 J	0.0149	5.00	ng/kg	88		78-138		
OCDF	0.220 J	0.0265	10.0	ng/kg	91		63-170		
Batch number: 11307002	Sample number(s): 6446834								
2378-TCDD	0.0250 U	0.0250	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0263 U	0.0263	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0229 J	0.0182	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0323 J	0.0182	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0212 J	0.0186	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	102		70-140		
OCDD	0.412 J	0.0259	10.0	ng/kg	98		78-144		
2378-TCDF	0.0197 U	0.0197	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0304 J	0.0104	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0732 J	0.0110	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0245 J	0.0131	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0169 J	0.0110	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0396 J	0.0154	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0200 J	0.0127	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0783 J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0162 U	0.0162	5.00	ng/kg	101		78-138		
OCDF	0.185 J	0.0413	10.0	ng/kg	101		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835					BKG: P446810			
Moisture Content by 160.3						10.5	10.7	1	20
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835 UNSPK: 6446826								
2378-TCDD	97	94	67-158	2	25				
12378-PeCDD	91	93	70-142	4	25				
123478-HxCDD	90	92	70-164	4	25				
123678-HxCDD	89	91	76-134	2	25				
123789-HxCDD	99	96	64-162	2	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	92	89	78-144	2	25				
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	92	90	80-134	1	25				
23478-PeCDF	87	87	68-160	0	25				
123478-HxCDF	93	91	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	96	93	78-130	3	25				
234678-HxCDF	89	91	70-156	3	25				
1234678-HpCDF	85	85	82-122	1	25				
1234789-HpCDF	93	90	78-138	3	25				
OCDF	93	93	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11301002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446825	82	71	52	64	74	70
6446826	76	69	59	63	72	68
6446827	74	69	58	65	72	68
6446828	74	67	48	54	74	76
6446829	79	68	52	63	71	67
6446830	74	64	54	62	67	64
6446831	88	83	72	82	83	81
6446832	74	69	53	63	65	60
6446833	76	66	37	49	67	59
6446835	76	71	63	67	72	68
Blank	73	71	53	62	66	67
MS	74	69	58	65	72	68
MSD	74	67	48	54	74	76
OPR	83	72	42	55	73	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446825	81	73	73	84	85	84
6446826	82	71	70	81	78	81
6446827	84	70	70	82	80	78
6446828	71	74	70	77	80	78
6446829	87	71	68	80	84	83
6446830	80	69	63	76	78	77
6446831	110	80	73	95	93	96
6446832	84	64	64	83	75	73
6446833	64	61	59	77	74	76
6446835	86	67	64	83	78	79
Blank	80	69	66	79	77	77
MS	84	70	70	82	80	78
MSD	71	74	70	77	80	78
OPR	71	74	69	88	83	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446825	87	94	95	73	79
6446826	83	91	92	67	75
6446827	81	90	91	66	75
6446828	83	88	93	64	74
6446829	86	92	93	65	76
6446830	79	83	83	65	74
6446831	99	108	105	76	93
6446832	79	86	90	64	78
6446833	81	79	81	65	75
6446835	80	87	88	68	78
Blank	79	86	87	60	73
MS	81	90	91	66	75
MSD	83	88	93	64	74
OPR	90	96	94	67	81
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11307002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446834	84	82	79	93	82	73
Blank	65	65	64	76	67	64
OPR	71	66	63	79	67	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446834	118	67	58	85	89	90
Blank	102	55	46	69	74	78
OPR	107	50	42	73	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446834	87	91	90	86	97
Blank	75	78	75	64	75
OPR	81	81	78	68	80
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1272729 Sample# 0446825-35

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber																					
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X				X							HGL ASTM II WATER-DPTcrew

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269114
SDG: DE258
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423855
SL-003-SA8S-SS-0.0-0.5 Soil	6423856
SL-003-SA8S-SS-0.0-0.5MS Soil	6423857
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423858
SL-003-SA8S-SS-0.0-0.5DUP Soil	6423859
SL-003-SA8S-SS-0.0-0.5RL MS Soil	6423860
SL-003-SA8S-SS-0.0-0.5RL LCS Soil	6423861
SL-005-SA8S-SS-0.0-0.5 Soil	6423862
SL-007-SA8S-SS-0.0-0.5 Soil	6423863
SL-013-SA8S-SS-0.0-0.5 Soil	6423864
SL-014-SA8S-SS-0.0-0.5 Soil	6423865
SL-015-SA8S-SS-0.0-0.5 Soil	6423866
SL-024-SA8S-SS-0.0-0.5 Soil	6423867
DUP01-SA8S-QC-092911 Soil	6423868
SL-126-SA7-SB-4.0-5.0 Soil	6423869
SL-127-SA7-SB-4.0-5.0 Soil	6423870
SL-177-SA7-SB-3.0-4.0 Soil	6423871
TB-092911 Water	6423872

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.91	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.1	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.3	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	1.2	J	0.71	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	1,900		81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.072	J	0.036	0.18	1
01363	Chlordane	57-74-9	1.5	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.52	U	0.52	0.52	1
01363	p,p-DDE	72-55-9	0.85		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.82		0.070	0.36	1
01363	Delta BHC	319-86-8	0.44		0.038	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.095	U	0.095	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.36	1
01363	Toxaphene	8001-35-2	5.3	U	5.3	7.0	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate recovery is above the client specified limits of 20-120%, however it is within the laboratory's in-house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.8	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

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Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.2		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		6.35	21.0	1
07914	Boron	7440-42-8	14.5		0.378	5.25	1
01650	Calcium	7440-70-2	76,800		13.1	105	5
01654	Iron	7439-89-6	37,700		13.7	105	5
01656	Lithium	7439-93-2	25.3		0.65	2.1	1
01657	Magnesium	7439-95-4	7,650		0.462	10.5	1
06958	Manganese	7439-96-5	337		0.0378	0.525	1
10145	Phosphorus	7723-14-0	638		0.367	10.5	1
01662	Potassium	7440-09-7	5,170		11.9	52.5	1
01667	Sodium	7440-23-5	118		6.25	105	1
07968	Strontium	7440-24-6	125		0.0262	0.525	1
06969	Tin	7440-31-5	2.14	J	0.336	10.5	1
06970	Titanium	7440-32-6	1,350		0.0724	1.02	1
10146	Zirconium	7440-67-7	2.86	J	0.483	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.225		0.0755	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.60		0.0816	0.408	2
06126	Barium	7440-39-3	138		0.108	0.408	2
06127	Beryllium	7440-41-7	0.853		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.389		0.0449	0.102	2
06131	Chromium	7440-47-3	47.4		0.122	0.408	2
06132	Cobalt	7440-48-4	12.2		0.0204	0.102	2
06133	Copper	7440-50-8	23.5		0.0816	0.408	2
06135	Lead	7439-92-1	18.2		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.461		0.0510	0.102	2
06139	Nickel	7440-02-0	25.7		0.102	0.408	2
06141	Selenium	7782-49-2	0.489		0.0591	0.408	2
06142	Silver	7440-22-4	0.0357	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.420		0.0306	0.102	2
06148	Vanadium	7440-62-2	86.2		0.0224	0.102	2
06149	Zinc	7440-66-6	90.9		0.571	3.06	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0073	0.103	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.43		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:38	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 02:10	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 12:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	130	U	130	260	1
10401	MCPP (Mecoprop)	93-65-2	280		77	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.18	1
	The LCS data is outside the QC limits for various compounds. Results from the						

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract..						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.48		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.42	U	0.42	0.42	1
01363	Delta BHC	319-86-8	0.059	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		6.19	20.5	1
07914	Boron	7440-42-8	11.2		0.369	5.12	1
01650	Calcium	7440-70-2	144,000		12.8	102	5
01654	Iron	7439-89-6	20,900		2.67	20.5	1
01656	Lithium	7439-93-2	18.5		0.63	2.0	1
01657	Magnesium	7439-95-4	6,100		0.451	10.2	1
06958	Manganese	7439-96-5	278		0.0369	0.512	1
10145	Phosphorus	7723-14-0	452		0.358	10.2	1
01662	Potassium	7440-09-7	3,130		11.6	51.2	1
01667	Sodium	7440-23-5	121		6.09	102	1
07968	Strontium	7440-24-6	156		0.0256	0.512	1
06969	Tin	7440-31-5	1.94	J	0.328	10.2	1
06970	Titanium	7440-32-6	832		0.0706	0.994	1
10146	Zirconium	7440-67-7	3.40	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0811	0.406	2
06126	Barium	7440-39-3	93.2		0.107	0.406	2
06127	Beryllium	7440-41-7	0.656		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.300		0.0446	0.101	2
06131	Chromium	7440-47-3	29.9		0.122	0.406	2
06132	Cobalt	7440-48-4	9.60		0.0203	0.101	2
06133	Copper	7440-50-8	18.8		0.0811	0.406	2
06135	Lead	7439-92-1	20.8		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.322		0.0507	0.101	2
06139	Nickel	7440-02-0	17.1		0.101	0.406	2
06141	Selenium	7782-49-2	0.252	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.0229	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.257		0.0304	0.101	2
06148	Vanadium	7440-62-2	51.6		0.0223	0.101	2
06149	Zinc	7440-66-6	55.1		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0184	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:23	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 14:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 00:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:56	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:25	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:11	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 11:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 11:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 13:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,700		17	170	1
04688	Aniline	62-53-3	1,400		170	520	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	3,200	J	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170	1
04688	Benzoic acid	65-85-0	220	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,600		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	2,100		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		34	170	1
04688	4-Chloroaniline	106-47-8	1,100		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170	1
04688	Chrysene	218-01-9	1,900		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	560		170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340	1
04688	Fluoranthene	206-44-0	1,900		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	2,100		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,900		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,700	34	170	1
04688	4-Methylphenol	106-44-5	1,700	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,500	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	34	170	1
04688	4-Nitroaniline	100-01-6	1,200	69	170	1
04688	Nitrobenzene	98-95-3	1,700	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,500	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,200	170	520	1
04688	Phenanthrene	85-01-8	1,800	17	170	1
04688	Phenol	108-95-2	1,700	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.69	1.7	1
10138	Acenaphthylene	208-96-8	32	0.34	1.7	1
10138	Anthracene	120-12-7	34	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	34	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	34	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	66	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	33	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	35	0.69	1.7	1
10138	Diethylphthalate	84-66-2	36	6.2	19	1
10138	Dimethylphthalate	131-11-3	35	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.2	19	1
10138	Fluoranthene	206-44-0	35	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	34		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	31		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	31		0.69	1.7	1
10138	Naphthalene	91-20-3	31		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	33		0.69	1.7	1
10138	Pyrene	129-00-0	34		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.4		1.2	3.7	1
10401	Dalapon	75-99-0	11		4.5	9.2	1
10401	2,4-DB	94-82-6	6.7		0.64	1.7	1
10401	Dicamba	1918-00-9	0.73	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.2	J	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.82	1.7	1
10401	MCPA	94-74-6	1,600		78	260	1
10401	MCPP (Mecoprop)	93-65-2	610		77	260	1
10401	2,4,5-T	93-76-5	0.60		0.084	0.18	1
10401	2,4,5-TP	93-72-1	0.13	J	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.19		0.035	0.18	1
01363	Beta BHC	319-85-7	0.20		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.50		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.97		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.87		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.35		0.068	0.35	1
01363	Endosulfan I	959-98-8	0.14	J	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.53		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.41		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.51		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.38		0.068	0.35	1
01363	Heptachlor	76-44-8	0.21		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.3		0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	12	U	12	12	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	12		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	14		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		6.26	20.7	1
07914	Boron	7440-42-8	223		0.372	5.17	1
01650	Calcium	7440-70-2	155,000		12.9	103	5
01654	Iron	7439-89-6	21,700		2.70	20.7	1
01656	Lithium	7439-93-2	123		0.64	2.1	1
01657	Magnesium	7439-95-4	6,410		0.455	10.3	1
06958	Manganese	7439-96-5	392		0.0372	0.517	1
10145	Phosphorus	7723-14-0	554		0.362	10.3	1
01662	Potassium	7440-09-7	4,660		11.7	51.7	1
01667	Sodium	7440-23-5	1,150		6.15	103	1
07968	Strontium	7440-24-6	252		0.0259	0.517	1
06969	Tin	7440-31-5	335		0.331	10.3	1
06970	Titanium	7440-32-6	1,150		0.0727	1.02	1
10146	Zirconium	7440-67-7	103		0.476	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.530		0.0743	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.6		0.0803	0.402	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	113	0.106	0.402	2
06127	Beryllium	7440-41-7	1.56	0.0161	0.100	2
06128	Cadmium	7440-43-9	1.42	0.0442	0.100	2
06131	Chromium	7440-47-3	46.8	0.120	0.402	2
06132	Cobalt	7440-48-4	64.8	0.0201	0.100	2
06133	Copper	7440-50-8	31.8	0.0803	0.402	2
06135	Lead	7439-92-1	24.4	0.0102	0.201	2
06138	Molybdenum	7439-98-7	12.0	0.0502	0.100	2
06139	Nickel	7440-02-0	30.7	0.100	0.402	2
06141	Selenium	7782-49-2	2.24	0.0582	0.402	2
06142	Silver	7440-22-4	11.1	0.0143	0.100	2
06145	Thallium	7440-28-0	0.747	0.0301	0.100	2
06148	Vanadium	7440-62-2	76.1	0.0221	0.100	2
06149	Zinc	7440-66-6	69.7	0.562	3.01	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0073	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	584	9.3	31.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.9	1.0	5.2	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:48	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 15:10	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:44	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:29	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:16	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		17	170	1
04688	Acenaphthylene	208-96-8	1,500		17	170	1
04688	Aniline	62-53-3	970		170	520	1
04688	Anthracene	120-12-7	1,600		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	200	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,800		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,500		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		34	170	1
04688	4-Chloroaniline	106-47-8	550		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170	1
04688	Dibenzofuran	132-64-9	1,500		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	700		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,500		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,500		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	720		170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,600		17	170	1
04688	Fluorene	86-73-7	1,500		17	170	1
04688	Hexachlorobenzene	118-74-1	1,900		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,800		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,400	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170	1
04688	2-Methylphenol	95-48-7	1,500	34	170	1
04688	4-Methylphenol	106-44-5	1,500	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,400	17	170	1
04688	2-Nitroaniline	88-74-4	1,400	17	170	1
04688	3-Nitroaniline	99-09-2	1,300	34	170	1
04688	4-Nitroaniline	100-01-6	1,000	69	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,500	170	520	1
04688	Phenanthrene	85-01-8	1,500	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,500	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.69	1.7	1
10138	Acenaphthylene	208-96-8	28	0.34	1.7	1
10138	Anthracene	120-12-7	30	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	29	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	30	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	19	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	30	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	51	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	30	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.69	1.7	1
10138	Diethylphthalate	84-66-2	34	6.2	19	1
10138	Dimethylphthalate	131-11-3	31	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.2	19	1
10138	Fluoranthene	206-44-0	32	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	31		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	28		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	27		0.69	1.7	1
10138	Naphthalene	91-20-3	28		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	28		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	29		0.69	1.7	1
10138	Pyrene	129-00-0	29		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.6		1.2	3.7	1
10401	Dalapon	75-99-0	8.9	J	4.5	9.3	1
10401	2,4-DB	94-82-6	5.5		0.64	1.8	1
10401	Dicamba	1918-00-9	0.72	J	0.41	1.2	1
10401	Dinoseb	88-85-7	5.2		0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.83	1.8	1
10401	MCPA	94-74-6	1,800		78	260	1
10401	MCPP (Mecoprop)	93-65-2	660		77	260	1
10401	2,4,5-T	93-76-5	0.40		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.36		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.18		0.035	0.18	1
01363	Beta BHC	319-85-7	0.18		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.48		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.91		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.81		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.32	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.18		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.47		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.34	J	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.39		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.47		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.20		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.19	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	8.6	U	8.6	8.6	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	14		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	16		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		6.19	20.5	1
07914	Boron	7440-42-8	219		0.369	5.12	1
01650	Calcium	7440-70-2	148,000		12.8	102	5
01654	Iron	7439-89-6	21,600		2.67	20.5	1
01656	Lithium	7439-93-2	123		0.63	2.0	1
01657	Magnesium	7439-95-4	6,700		0.451	10.2	1
06958	Manganese	7439-96-5	336		0.0369	0.512	1
10145	Phosphorus	7723-14-0	561		0.358	10.2	1
01662	Potassium	7440-09-7	4,880		11.6	51.2	1
01667	Sodium	7440-23-5	1,130		6.09	102	1
07968	Strontium	7440-24-6	245		0.0256	0.512	1
06969	Tin	7440-31-5	328		0.328	10.2	1
06970	Titanium	7440-32-6	1,130		0.0706	0.994	1
10146	Zirconium	7440-67-7	102		0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.650		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.0		0.0811	0.406	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	126	0.107	0.406	2
06127	Beryllium	7440-41-7	1.60	0.0162	0.101	2
06128	Cadmium	7440-43-9	1.63	0.0446	0.101	2
06131	Chromium	7440-47-3	51.0	0.122	0.406	2
06132	Cobalt	7440-48-4	75.1	0.0203	0.101	2
06133	Copper	7440-50-8	35.7	0.0811	0.406	2
06135	Lead	7439-92-1	28.5	0.0103	0.203	2
06138	Molybdenum	7439-98-7	13.9	0.0507	0.101	2
06139	Nickel	7440-02-0	35.2	0.101	0.406	2
06141	Selenium	7782-49-2	2.49	0.0588	0.406	2
06142	Silver	7440-22-4	12.9	0.0144	0.101	2
06145	Thallium	7440-28-0	0.841	0.0304	0.101	2
06148	Vanadium	7440-62-2	80.5	0.0223	0.101	2
06149	Zinc	7440-66-6	73.4	0.568	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175	0.0069	0.0979	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:13	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 19:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:26	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:03	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.02	19.9	1
07914	Boron	7440-42-8	10.9		0.358	4.97	1
01650	Calcium	7440-70-2	139,000		12.4	99.4	5
01654	Iron	7439-89-6	24,600		2.60	19.9	1
01656	Lithium	7439-93-2	18.3		0.62	2.0	1
01657	Magnesium	7439-95-4	6,120		0.438	9.94	1
06958	Manganese	7439-96-5	313		0.0358	0.497	1
10145	Phosphorus	7723-14-0	460		0.348	9.94	1
01662	Potassium	7440-09-7	3,150		11.2	49.7	1
01667	Sodium	7440-23-5	112		5.92	99.4	1
07968	Strontium	7440-24-6	154		0.0249	0.497	1
06969	Tin	7440-31-5	1.95	J	0.318	9.94	1
06970	Titanium	7440-32-6	844		0.0727	1.02	1
10146	Zirconium	7440-67-7	4.19	J	0.457	4.97	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.15		0.0795	0.398	2
06126	Barium	7440-39-3	111		0.105	0.398	2
06127	Beryllium	7440-41-7	0.794		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.364		0.0438	0.0994	2
06131	Chromium	7440-47-3	35.1		0.119	0.398	2
06132	Cobalt	7440-48-4	9.48		0.0199	0.0994	2
06133	Copper	7440-50-8	23.7		0.0795	0.398	2
06135	Lead	7439-92-1	23.8		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.455		0.0497	0.0994	2
06139	Nickel	7440-02-0	20.4		0.0994	0.398	2
06141	Selenium	7782-49-2	0.303	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0176	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.313		0.0298	0.0994	2
06148	Vanadium	7440-62-2	64.9		0.0219	0.0994	2
06149	Zinc	7440-66-6	67.1		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:26	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	3.9	J	3.8	9.3	1
10401	2,4-DB	94-82-6	1.6	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.46	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.3	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.83	1.8	1
10401	MCPA	94-74-6	890		79	260	1
10401	MCPP (Mecoprop)	93-65-2	120	J	78	260	1
10401	2,4,5-T	93-76-5	0.45		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.43		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.087	J	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.084	J	0.035	0.17	1
01363	Beta BHC	319-85-7	0.10	J	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.094	J	0.035	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.23	J	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.64		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.50		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.16	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.16	J	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.20	J	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.29	J	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.22	J	0.068	0.35	1
01363	Heptachlor	76-44-8	0.10	J	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.074	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	1.0	J	0.35	1.7	1
01363	Mirex	2385-85-5	0.30	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.2	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.7	J	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	3.2		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	3.3		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 03:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:40	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.0		1.2	3.6	1
10401	Dalapon	75-99-0	3.9	J	3.5	9.0	1
10401	2,4-DB	94-82-6	1.7		0.62	1.7	1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.61	J	0.60	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3		0.80	1.7	1
10401	MCPA	94-74-6	160	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	120	J	75	250	1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.13	J	0.075	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.088	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.12	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.093	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.18	J	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.16	J	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.16	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.11	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.12	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.11	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.12	J	0.066	0.34	1
01363	Endrin	72-20-8	0.14	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.14	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.094	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.068	J	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.78	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.4	J	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112910026A	10/21/2011 03:55	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:59	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112910026A	10/19/2011 10:45	Kelli M Barto	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	0.90	U	0.90	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.22		0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35	1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.16	20.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	8.92		0.366	5.09	1
01650	Calcium	7440-70-2	239,000		12.7	102	5
01654	Iron	7439-89-6	11,100		2.66	20.4	1
01656	Lithium	7439-93-2	12.7		0.63	2.0	1
01657	Magnesium	7439-95-4	3,930		0.448	10.2	1
06958	Manganese	7439-96-5	167		0.0366	0.509	1
10145	Phosphorus	7723-14-0	228		0.356	10.2	1
01662	Potassium	7440-09-7	1,460		11.5	50.9	1
01667	Sodium	7440-23-5	120		6.05	102	1
07968	Strontium	7440-24-6	182		0.0254	0.509	1
06969	Tin	7440-31-5	1.44	J	0.326	10.2	1
06970	Titanium	7440-32-6	542		0.0722	1.02	1
10146	Zirconium	7440-67-7	2.30	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.49		0.0814	0.407	2
06126	Barium	7440-39-3	82.4		0.108	0.407	2
06127	Beryllium	7440-41-7	0.478		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.232		0.0448	0.102	2
06131	Chromium	7440-47-3	23.8		0.122	0.407	2
06132	Cobalt	7440-48-4	4.85		0.0204	0.102	2
06133	Copper	7440-50-8	9.34		0.0806	0.403	2
06135	Lead	7439-92-1	6.61		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.136		0.0509	0.102	2
06139	Nickel	7440-02-0	9.79		0.102	0.407	2
06141	Selenium	7782-49-2	0.143	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0144	U	0.0144	0.102	2
06145	Thallium	7440-28-0	0.123		0.0305	0.102	2
06148	Vanadium	7440-62-2	37.4		0.0224	0.102	2
06149	Zinc	7440-66-6	27.9		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0987	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:03	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:18	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:57	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.35	1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.35	1
01363	Delta BHC	319-86-8	0.045	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	4.7	U	4.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.27	20.7	1
07914	Boron	7440-42-8	9.04		0.373	5.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	242,000		12.9	104	5
01654	Iron	7439-89-6	13,600		2.70	20.7	1
01656	Lithium	7439-93-2	15.3		0.64	2.1	1
01657	Magnesium	7439-95-4	4,330		0.456	10.4	1
06958	Manganese	7439-96-5	180		0.0373	0.518	1
10145	Phosphorus	7723-14-0	279		0.362	10.4	1
01662	Potassium	7440-09-7	1,640		11.7	51.8	1
01667	Sodium	7440-23-5	117		6.16	104	1
07968	Strontium	7440-24-6	142		0.0259	0.518	1
06969	Tin	7440-31-5	1.50	J	0.331	10.4	1
06970	Titanium	7440-32-6	674		0.0743	1.05	1
10146	Zirconium	7440-67-7	2.00	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.87		0.0829	0.414	2
06126	Barium	7440-39-3	88.6		0.110	0.414	2
06127	Beryllium	7440-41-7	0.418		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.225		0.0456	0.104	2
06131	Chromium	7440-47-3	23.8		0.124	0.414	2
06132	Cobalt	7440-48-4	6.87		0.0207	0.104	2
06133	Copper	7440-50-8	12.6		0.0829	0.414	2
06135	Lead	7439-92-1	10.9		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.277		0.0518	0.104	2
06139	Nickel	7440-02-0	13.2		0.104	0.414	2
06141	Selenium	7782-49-2	0.213	J	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.176		0.0311	0.104	2
06148	Vanadium	7440-62-2	38.5		0.0228	0.104	2
06149	Zinc	7440-66-6	34.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.2		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:28	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:54	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:37	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:08	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/10/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.41	J	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	27		6.2	18	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	18	1
10138	Chrysene	218-01-9	0.89	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.2	18	1
10138	Fluoranthene	206-44-0	1.3	J	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.80	J	0.68	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.4	J	0.64	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	380		78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17	1
10401	2,4,5-TP	93-72-1	0.26		0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA and 2,4,5-TP were not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.060	J	0.035	0.17	1
01363	Chlordane	57-74-9	2.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.068	0.35	1
01363	p,p-DDT	50-29-3	1.9		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	U	0.14	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.27	U	0.27	0.35	1
01363	Toxaphene	8001-35-2	4.3	U	4.3	6.8	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.5	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.99	19.8	1
07914	Boron	7440-42-8	7.63		0.356	4.95	1
01650	Calcium	7440-70-2	35,400		2.48	19.8	1
01654	Iron	7439-89-6	21,500		2.58	19.8	1
01656	Lithium	7439-93-2	25.1		0.61	2.0	1
01657	Magnesium	7439-95-4	5,380		0.436	9.90	1
06958	Manganese	7439-96-5	328		0.0356	0.495	1
10145	Phosphorus	7723-14-0	469		0.347	9.90	1
01662	Potassium	7440-09-7	3,850		11.2	49.5	1
01667	Sodium	7440-23-5	72.2	J	5.89	99.0	1
07968	Strontium	7440-24-6	37.8		0.0248	0.495	1
06969	Tin	7440-31-5	2.24	J	0.317	9.90	1
06970	Titanium	7440-32-6	1,100		0.0717	1.01	1
10146	Zirconium	7440-67-7	1.71	J	0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0762	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.58		0.0824	0.412	2
06126	Barium	7440-39-3	108		0.109	0.412	2
06127	Beryllium	7440-41-7	0.690		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.235		0.0453	0.103	2
06131	Chromium	7440-47-3	25.8		0.124	0.412	2
06132	Cobalt	7440-48-4	8.91		0.0206	0.103	2
06133	Copper	7440-50-8	14.3		0.0816	0.408	2
06135	Lead	7439-92-1	13.9		0.0105	0.206	2
06138	Molybdenum	7439-98-7	2.03		0.0515	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.221	J	0.0597	0.412	2
06142	Silver	7440-22-4	0.0298	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.351		0.0309	0.103	2
06148	Vanadium	7440-62-2	49.8		0.0227	0.103	2
06149	Zinc	7440-66-6	82.8		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0070	0.100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.00		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:54	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:55	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.78	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.42	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.0		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.3		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	16		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	47		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	2.7		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.2	19	1
10138	Fluoranthene	206-44-0	4.6		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	1.6	J	0.69	1.7	1
10138	Pyrene	129-00-0	2.8		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.94	J	0.65	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.21		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	2.4	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.80		0.069	0.35	1
01363	Delta BHC	319-86-8	0.054	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.098	U	0.098	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	1.4	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		6.32	20.9	1
07914	Boron	7440-42-8	12.2		0.376	5.22	1
01650	Calcium	7440-70-2	68,000		13.0	104	5
01654	Iron	7439-89-6	24,200		2.72	20.9	1
01656	Lithium	7439-93-2	23.9		0.65	2.1	1
01657	Magnesium	7439-95-4	6,800		0.459	10.4	1
06958	Manganese	7439-96-5	402		0.0376	0.522	1
10145	Phosphorus	7723-14-0	615		0.365	10.4	1
01662	Potassium	7440-09-7	4,610		11.8	52.2	1
01667	Sodium	7440-23-5	94.3	J	6.21	104	1
07968	Strontium	7440-24-6	73.1		0.0261	0.522	1
06969	Tin	7440-31-5	2.20	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,050		0.0741	1.04	1
10146	Zirconium	7440-67-7	2.13	J	0.480	5.22	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92		0.0795	0.398	2
06126	Barium	7440-39-3	115		0.105	0.398	2
06127	Beryllium	7440-41-7	0.748		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.324		0.0437	0.0994	2
06131	Chromium	7440-47-3	32.3		0.119	0.398	2
06132	Cobalt	7440-48-4	9.79		0.0199	0.0994	2
06133	Copper	7440-50-8	19.2		0.0795	0.398	2
06135	Lead	7439-92-1	14.9		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.531		0.0497	0.0994	2
06139	Nickel	7440-02-0	21.1		0.0994	0.398	2
06141	Selenium	7782-49-2	0.315	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0323	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.367		0.0298	0.0994	2
06148	Vanadium	7440-62-2	51.4		0.0219	0.0994	2
06149	Zinc	7440-66-6	72.3		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0068	0.0965	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:19	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:49	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:33	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
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E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

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Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
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Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.8	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	200	U	200	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	0.57		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.29	J	0.069	0.36	1
01363	Delta BHC	319-86-8	0.20		0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.55	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		6.14	20.3	1
07914	Boron	7440-42-8	10.9		0.366	5.08	1
01650	Calcium	7440-70-2	96,600		12.7	102	5
01654	Iron	7439-89-6	23,400		2.65	20.3	1
01656	Lithium	7439-93-2	22.6		0.63	2.0	1
01657	Magnesium	7439-95-4	6,720		0.447	10.2	1
06958	Manganese	7439-96-5	451		0.0366	0.508	1
10145	Phosphorus	7723-14-0	578		0.355	10.2	1
01662	Potassium	7440-09-7	4,370		11.5	50.8	1
01667	Sodium	7440-23-5	115		6.04	102	1
07968	Strontium	7440-24-6	101		0.0254	0.508	1
06969	Tin	7440-31-5	1.91	J	0.325	10.2	1
06970	Titanium	7440-32-6	1,070		0.0728	1.03	1
10146	Zirconium	7440-67-7	2.65	J	0.467	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0759	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.44		0.0820	0.410	2
06126	Barium	7440-39-3	105		0.109	0.410	2
06127	Beryllium	7440-41-7	0.710		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.338		0.0451	0.103	2
06131	Chromium	7440-47-3	31.3		0.123	0.410	2
06132	Cobalt	7440-48-4	9.63		0.0205	0.103	2
06133	Copper	7440-50-8	18.0		0.0820	0.410	2
06135	Lead	7439-92-1	11.3		0.0105	0.205	2
06138	Molybdenum	7439-98-7	0.491		0.0513	0.103	2
06139	Nickel	7440-02-0	19.2		0.103	0.410	2
06141	Selenium	7782-49-2	0.291	J	0.0595	0.410	2
06142	Silver	7440-22-4	0.0292	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.356		0.0308	0.103	2
06148	Vanadium	7440-62-2	53.2		0.0226	0.103	2
06149	Zinc	7440-66-6	63.8		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

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E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:44	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:53	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:52	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:37	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5807 SDG#: DE258-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

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E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	210	U	210	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.20		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	2.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.62		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.94		0.069	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.9	U	2.9	6.9	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		6.33	20.9	1
07914	Boron	7440-42-8	11.2		0.377	5.23	1
01650	Calcium	7440-70-2	109,000		13.1	105	5
01654	Iron	7439-89-6	25,200		2.73	20.9	1
01656	Lithium	7439-93-2	25.5		0.65	2.1	1
01657	Magnesium	7439-95-4	6,680		0.460	10.5	1
06958	Manganese	7439-96-5	330		0.0377	0.523	1
10145	Phosphorus	7723-14-0	500		0.366	10.5	1
01662	Potassium	7440-09-7	4,220		11.8	52.3	1
01667	Sodium	7440-23-5	104	J	6.22	105	1
07968	Strontium	7440-24-6	106		0.0262	0.523	1
06969	Tin	7440-31-5	2.06	J	0.335	10.5	1
06970	Titanium	7440-32-6	980		0.0721	1.02	1
10146	Zirconium	7440-67-7	3.31	J	0.481	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.35		0.0829	0.414	2
06126	Barium	7440-39-3	98.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.684		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.263		0.0456	0.104	2
06131	Chromium	7440-47-3	34.8		0.124	0.414	2
06132	Cobalt	7440-48-4	9.74		0.0207	0.104	2
06133	Copper	7440-50-8	18.4		0.0829	0.414	2
06135	Lead	7439-92-1	16.7		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.324		0.0518	0.104	2
06139	Nickel	7440-02-0	18.9		0.104	0.414	2
06141	Selenium	7782-49-2	0.631		0.0601	0.414	2
06142	Silver	7440-22-4	0.0209	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.330		0.0311	0.104	2
06148	Vanadium	7440-62-2	59.0		0.0228	0.104	2
06149	Zinc	7440-66-6	64.6		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.99	J	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:09	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:11	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:40	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
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E5808 SDG#: DE258-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.9		0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8	1
10401	MCPA	94-74-6	180	U	180	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.33	U	0.33	0.33	1
10401	2,4,5-TP	93-72-1	0.23	U	0.23	0.23	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4-DB was not detected in the reextract. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.6	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35	1
01363	p,p-DDE	72-55-9	0.53		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.43	U	0.43	0.43	1
01363	Delta BHC	319-86-8	0.055	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.35	1
01363	Toxaphene	8001-35-2	7.8	U	7.8	7.8	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.54	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.18	20.4	1
07914	Boron	7440-42-8	10.4		0.368	5.11	1
01650	Calcium	7440-70-2	134,000		12.8	102	5
01654	Iron	7439-89-6	21,300		2.67	20.4	1
01656	Lithium	7439-93-2	18.9		0.63	2.0	1
01657	Magnesium	7439-95-4	6,510		0.450	10.2	1
06958	Manganese	7439-96-5	268		0.0368	0.511	1
10145	Phosphorus	7723-14-0	455		0.358	10.2	1
01662	Potassium	7440-09-7	3,360		11.5	51.1	1
01667	Sodium	7440-23-5	116		6.08	102	1
07968	Strontium	7440-24-6	151		0.0255	0.511	1
06969	Tin	7440-31-5	1.99	J	0.327	10.2	1
06970	Titanium	7440-32-6	834		0.0733	1.03	1
10146	Zirconium	7440-67-7	3.54	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.253		0.0756	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.86		0.0817	0.409	2
06126	Barium	7440-39-3	108		0.108	0.409	2
06127	Beryllium	7440-41-7	0.749		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.343		0.0450	0.102	2
06131	Chromium	7440-47-3	32.6		0.123	0.409	2
06132	Cobalt	7440-48-4	10.2		0.0204	0.102	2
06133	Copper	7440-50-8	22.9		0.0817	0.409	2
06135	Lead	7439-92-1	22.9		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.440		0.0511	0.102	2
06139	Nickel	7440-02-0	19.8		0.102	0.409	2
06141	Selenium	7782-49-2	0.284	J	0.0593	0.409	2
06142	Silver	7440-22-4	0.0184	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.303		0.0307	0.102	2
06148	Vanadium	7440-62-2	61.4		0.0225	0.102	2
06149	Zinc	7440-66-6	64.6		0.572	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0070	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:34	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 07:11	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:29	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:44	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.52	21.6	1
07914	Boron	7440-42-8	2.58	J	0.388	5.39	1
01650	Calcium	7440-70-2	2,110		2.69	21.6	1
01654	Iron	7439-89-6	19,500		2.81	21.6	1
01656	Lithium	7439-93-2	24.3		0.67	2.2	1
01657	Magnesium	7439-95-4	3,780		0.474	10.8	1
06958	Manganese	7439-96-5	282		0.0388	0.539	1
10145	Phosphorus	7723-14-0	282		0.377	10.8	1
01662	Potassium	7440-09-7	4,020		12.2	53.9	1
01667	Sodium	7440-23-5	85.6	J	6.41	108	1
07968	Strontium	7440-24-6	19.5		0.0269	0.539	1
06969	Tin	7440-31-5	2.45	J	0.345	10.8	1
06970	Titanium	7440-32-6	1,250		0.0736	1.04	1
10146	Zirconium	7440-67-7	1.76	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0855	J	0.0782	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.03		0.0845	0.423	2
06126	Barium	7440-39-3	134		0.112	0.423	2
06127	Beryllium	7440-41-7	0.667		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.164		0.0465	0.106	2
06131	Chromium	7440-47-3	16.8		0.127	0.423	2
06132	Cobalt	7440-48-4	6.53		0.0211	0.106	2
06133	Copper	7440-50-8	9.64		0.0862	0.431	2
06135	Lead	7439-92-1	6.61		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.878		0.0528	0.106	2
06139	Nickel	7440-02-0	12.2		0.106	0.423	2
06141	Selenium	7782-49-2	0.0991	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0360	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.357		0.0317	0.106	2
06148	Vanadium	7440-62-2	34.5		0.0232	0.106	2
06149	Zinc	7440-66-6	69.6		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.99		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:59	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 01:07	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 18:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.58	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.83	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.5		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.3	19	1
10138	Fluoranthene	206-44-0	8.3		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	4.6		0.70	1.7	1
10138	Pyrene	129-00-0	5.3		0.70	1.7	1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 7.6 ug/kg indeno(1,2,3-cd)pyrene 1.1 ug/kg These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. These compounds were not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,250		6.20	20.5	1
07914	Boron	7440-42-8	1.20	J	0.369	5.13	1
01650	Calcium	7440-70-2	4,850		2.56	20.5	1
01654	Iron	7439-89-6	16,600		2.68	20.5	1
01656	Lithium	7439-93-2	27.5		0.64	2.1	1
01657	Magnesium	7439-95-4	4,000		0.451	10.3	1
06958	Manganese	7439-96-5	248		0.0369	0.513	1
10145	Phosphorus	7723-14-0	308		0.359	10.3	1
01662	Potassium	7440-09-7	2,940		11.6	51.3	1
01667	Sodium	7440-23-5	81.2	J	6.10	103	1
07968	Strontium	7440-24-6	13.2		0.0256	0.513	1
06969	Tin	7440-31-5	2.26	J	0.328	10.3	1
06970	Titanium	7440-32-6	1,080		0.0735	1.04	1
10146	Zirconium	7440-67-7	0.573	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0860	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.12		0.0829	0.414	2
06126	Barium	7440-39-3	90.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.407		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0757	J	0.0456	0.104	2
06131	Chromium	7440-47-3	13.2		0.124	0.414	2
06132	Cobalt	7440-48-4	4.99		0.0207	0.104	2
06133	Copper	7440-50-8	5.08		0.0812	0.406	2
06135	Lead	7439-92-1	3.75		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.289		0.0518	0.104	2
06139	Nickel	7440-02-0	8.73		0.104	0.414	2
06141	Selenium	7782-49-2	0.0601	U	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.271		0.0311	0.104	2
06148	Vanadium	7440-62-2	28.6		0.0228	0.104	2
06149	Zinc	7440-66-6	60.3		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071 U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0 J	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.63	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:24	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:41	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 17:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.61
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	1.4		0.42	1.3	1
10199	EFH (C21-C30)	n.a.	2.0		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	4.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.16	20.4	1
07914	Boron	7440-42-8	1.87	J	0.366	5.09	1
01650	Calcium	7440-70-2	1,670		2.54	20.4	1
01654	Iron	7439-89-6	16,200		2.66	20.4	1
01656	Lithium	7439-93-2	21.9		0.63	2.0	1
01657	Magnesium	7439-95-4	3,280		0.448	10.2	1
06958	Manganese	7439-96-5	191		0.0366	0.509	1
10145	Phosphorus	7723-14-0	210		0.356	10.2	1
01662	Potassium	7440-09-7	2,650		11.5	50.9	1
01667	Sodium	7440-23-5	108		6.05	102	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	11.4		0.0254	0.509	1
06969	Tin	7440-31-5	2.38	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,080		0.0737	1.04	1
10146	Zirconium	7440-67-7	0.838	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0830	0.415	2
06126	Barium	7440-39-3	102		0.110	0.415	2
06127	Beryllium	7440-41-7	0.735		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0806	J	0.0456	0.104	2
06131	Chromium	7440-47-3	15.9		0.124	0.415	2
06132	Cobalt	7440-48-4	5.11		0.0207	0.104	2
06133	Copper	7440-50-8	5.45		0.0847	0.423	2
06135	Lead	7439-92-1	6.03		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.627		0.0519	0.104	2
06139	Nickel	7440-02-0	10.3		0.104	0.415	2
06141	Selenium	7782-49-2	0.176	J	0.0602	0.415	2
06142	Silver	7440-22-4	0.0351	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.323		0.0311	0.104	2
06148	Vanadium	7440-62-2	31.4		0.0228	0.104	2
06149	Zinc	7440-66-6	61.4		0.581	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.92		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-177-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:49	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 19:58	Laura M Krieger	25.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127325703	09/30/2011 13:07	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127325703	09/30/2011 13:08	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 23:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:56	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 13:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 20:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 19:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:16	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092911 Water
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6423872
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5813 SDG#: DE258-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279A20A	10/07/2011 13:14	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279A20A	10/07/2011 13:14	Marie D John	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	67		20-115		
Anthracene	17	U	17.	170	ug/kg	103		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	106		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	108		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	47*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	117*		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	101		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	97		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	110		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	106		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	45		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	40*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	105		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Fluoranthene	17	U	17.	170	ug/kg	110		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	120*		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	107		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	106		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	63		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	78		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	1.5	J	0.67	1.7	ug/kg	96		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	1.4	J	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	7.6	J	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	1.1	J	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11274A34A	Sample number(s): 6423871									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11279A20A	Sample number(s): 6423872									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868									
2,4-D	1.2	U	1.2	3.6	ug/kg	77		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	37		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	81		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	51*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	95		62-170		
MCPA	76	U	76.	250	ug/kg	53*		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	47*		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	63*		68-114		
Batch number: 112910026A	Sample number(s): 6423861									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	23		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	98		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	92		62-170		
MCPA	76	U	76.	250	ug/kg	62		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	55		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	74		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	125		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	100		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	62		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	91		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	65	66	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	72		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	82		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730032A	Sample number(s): 6423871									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	98		68-129		
Batch number: 112790048A	Sample number(s): 6423871									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790036A	Sample number(s): 6423871									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112790037A	Sample number(s): 6423871									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871									
Antimony	0.0725	U	0.0725	0.196	mg/kg	76		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	97		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	94		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	95		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	105		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	98		85-114		
Copper	0.977		0.0784	0.392	mg/kg	102		81-110		
Lead	0.121	J	0.0100	0.196	mg/kg	96		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	99		81-110		
Silver	0.0360	J	0.0139	0.0980	mg/kg	100		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	96		82-112		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	97		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	96		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871									
Selenium	0.0569	U	0.0569	0.392	mg/kg	94		79-110		
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	101		80-110		
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871									
Barium	0.104	U	0.104	0.392	mg/kg	96		83-110		
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871									
Aluminum	14.0	J	5.99	19.8	mg/kg	105		51-110		
Boron	0.356	U	0.356	4.95	mg/kg	103		83-110		
Calcium	13.0	J	2.48	19.8	mg/kg	103		81-110		
Iron	7.03	J	2.58	19.8	mg/kg	94		57-110		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	5.37	J	0.436	9.90	mg/kg	103		68-110		
Manganese	0.0762	J	0.0356	0.495	mg/kg	99		85-116		
Phosphorus	1.34	J	0.347	9.90	mg/kg	106		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	102		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	98		76-110		
Strontium	0.0535	J	0.0248	0.495	mg/kg	99		84-110		
Tin	1.32	J	0.317	9.90	mg/kg	96		86-120		
Zirconium	0.455	U	0.455	4.95	mg/kg	107		80-120		
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871									
Mercury	0.0067	U	0.0067	0.0946	mg/kg	95		83-119		
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871									
Copper	0.0769	U	0.0769	0.385	mg/kg	92		81-110		
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871									
Titanium	0.0860	J	0.0710	1.00	mg/kg	97		80-120		
Batch number: 11278102201B	Sample number(s): 6423871									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285285202B	Sample number(s): 6423869-6423871									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285495201B	Sample number(s): 6423869-6423871									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868									
17a pH by 9045C						100		95-105		
Batch number: 11285039402B	Sample number(s): 6423869-6423871									
17a pH by 9045C						100		95-105		
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871									

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Quality Control Summary

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Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	96	87	75-115	10	30				
Acenaphthylene	100	90	81-110	10	30				
Aniline	79	56	18-116	34*	30				
Anthracene	106	92	75-115	14	30				
Benzidine	38	0*	35-141	200*	30				
Benzo(a)anthracene	106	92	65-122	14	30				
Benzo(a)pyrene	110	96	57-126	13	30				
Benzo(b)fluoranthene	108	95	59-125	12	30				
Benzo(g,h,i)perylene	106	98	59-127	8	30				
Benzo(k)fluoranthene	109	91	56-132	18	30				
Benzoic acid	13	12	10-173	11	30				
Benzyl alcohol	92	107	67-115	15	30				
4-Bromophenyl-phenylether	120	107	67-129	11	30				
Butylbenzylphthalate	98	90	73-134	9	30				
Di-n-butylphthalate	103	92	67-123	11	30				
Carbazole	101	86	64-120	16	30				
4-Chloro-3-methylphenol	96	84	62-122	14	30				
4-Chloroaniline	66	32	13-107	69*	30				
bis(2-Chloroethoxy)methane	98	92	75-104	6	30				
bis(2-Chloroethyl)ether	100	91	60-116	10	30				
bis(2-Chloroisopropyl)ether	82	78	55-142	5	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	98	90	73-121	8	30				
4-Chlorophenyl-phenylether	101	89	80-109	12	30				
Chrysene	109	93	62-128	16	30				
Dibenz(a,h)anthracene	110	99	65-125	11	30				
Dibenzofuran	95	85	71-112	12	30				
1,2-Dichlorobenzene	89	83	66-108	7	30				
1,3-Dichlorobenzene	87	82	63-109	6	30				
1,4-Dichlorobenzene	87	80	58-108	8	30				
3,3'-Dichlorobenzidine	62	41	28-109	41*	30				
2,4-Dichlorophenol	104	94	66-123	10	30				
Diethylphthalate	97	86	66-118	12	30				
2,4-Dimethylphenol	100	90	68-118	11	30				
3,5-Dimethylphenol	103	93	71-127	10	30				
Dimethylphthalate	99	87	64-118	12	30				
4,6-Dinitro-2-methylphenol	33	42	11-126	25	30				
2,4-Dinitrophenol	0*	20	20-143	200*	30				
2,4-Dinitrotoluene	98	86	56-129	14	30				
2,6-Dinitrotoluene	107	94	69-123	13	30				
1,2-Diphenylhydrazine	107	96	71-129	11	30				
bis(2-Ethylhexyl)phthalate	98	92	63-122	7	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	111	94	73-112	17	30				
Fluorene	98	87	63-121	12	30				
Hexachlorobenzene	123*	110	77-114	11	30				
Hexachlorobutadiene	109	103	62-120	6	30				
Hexachlorocyclopentadiene	116	117	10-153	1	30				
Hexachloroethane	93	89	57-109	4	30				
Indeno(1,2,3-cd)pyrene	109	98	61-126	10	30				
Isophorone	96	89	73-102	8	30				
1-Methylnaphthalene	91	83	64-122	10	30				
2-Methylnaphthalene	94	86	76-114	9	30				
2-Methylphenol	96	89	75-111	8	30				
4-Methylphenol	100	90	59-123	11	30				
Naphthalene	91	84	72-116	8	30				
2-Nitroaniline	87	81	67-125	6	30				
3-Nitroaniline	96	75	59-122	25	30				
4-Nitroaniline	70	58	41-109	18	30				
Nitrobenzene	97	92	57-125	5	30				
2-Nitrophenol	85	87	56-127	1	30				
4-Nitrophenol	87	81	37-129	7	30				
N-Nitroso-di-n-propylamine	90	83	60-116	8	30				
N-Nitrosodimethylamine	91	84	47-116	9	30				
N-Nitrosodiphenylamine	107	96	71-122	11	30				
Di-n-octylphthalate	99	94	56-126	5	30				
Pentachlorophenol	68	89	28-127	27	30				
Phenanthrene	104	90	65-125	14	30				
Phenol	101	91	58-126	10	30				
Pyrene	101	89	74-126	12	30				
1,2,4-Trichlorobenzene	99	93	72-115	6	30				
2,4,5-Trichlorophenol	107	98	58-129	8	30				
2,4,6-Trichlorophenol	112	103	56-134	8	30				
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	93	84	63-105	10	30				
Acenaphthylene	93	83	67-114	12	30				
Anthracene	99	87	73-115	13	30				
Benzo(a)anthracene	99	85	59-128	15	30				
Benzo(a)pyrene	98	89	58-142	10	30				
Benzo(b)fluoranthene	106	106	54-163	0	30				
Benzo(g,h,i)perylene	91	55	33-141	49*	30				
Benzo(k)fluoranthene	92	89	57-153	3	30				
Butylbenzylphthalate	134	92	57-173	25	30				
Di-n-butylphthalate	115	114	65-148	0	30				
Chrysene	97	87	67-123	11	30				
Dibenz(a,h)anthracene	101	66	22-133	41*	30				
Diethylphthalate	106	99	70-136	6	30				
Dimethylphthalate	101	91	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	102	124	39-167	16	30				
Fluoranthene	103	93	51-149	10	30				
Fluorene	99	89	66-122	11	30				
Indeno(1,2,3-cd)pyrene	99	65	21-143	41*	30				
1-Methylnaphthalene	90	80	72-123	12	30				
2-Methylnaphthalene	90	79	64-103	14	30				
Naphthalene	92	81	61-102	12	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	95	81	48-113	16	30				
Di-n-octylphthalate	117	116	40-192	1	30				
Phenanthrene	96	84	62-122	14	30				
Pyrene	99	86	51-131	15	30				
Batch number: 11274A34A	Sample number(s): 6423871 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868 UNSPK: 6423856								
2,4-D	75	77	17-180	2	35				
Dalapon	50	41	10-125	19	50				
2,4-DB	78	63	10-201	20	50				
Dicamba	86	84	10-190	1	50				
Dinoseb	8*	36	10-46	124*	35				
2,4-DP (Dichlorprop)	111	115	33-178	4	50				
MCPA	184	209	10-213	14	50				
MCPP (Mecoprop)	39	44	10-184	8	50				
2,4,5-T	70	47	10-156	39*	35				
2,4,5-TP	16*	42	24-141	92*	35				
Batch number: 112910026A	Sample number(s): 6423861 UNSPK: P423856								
2,4-D	78	77	17-180	1	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	88	82	10-201	7	50				
Dicamba	55	0*	10-190	200*	50				
Dinoseb	18	11	10-46	43*	35				
2,4-DP (Dichlorprop)	70	73	33-178	4	50				
MCPA	72	77	10-213	7	50				
MCPP (Mecoprop)	55	55	10-184	1	50				
2,4,5-T	34	41	10-156	19	35				
2,4,5-TP	35	55	24-141	45*	35				
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868 UNSPK: 6423856								
Aldrin	55	55	16-126	0	50				
Alpha BHC	53	50	10-129	6	50				
Beta BHC	59	53	14-147	11	50				
Gamma BHC - Lindane	53	53	10-140	0	50				
p,p-DDD	72	69	16-163	4	50				
p,p-DDE	72	63	18-161	7	50				
p,p-DDT	118	110	10-176	7	50				
Delta BHC	67	67	23-140	0	50				
Dieldrin	50	46	19-154	9	50				
Endosulfan I	41	50	16-137	19	50				
Endosulfan II	78	69	28-154	13	50				
Endosulfan Sulfate	0*	51	21-160	200*	50				
Endrin	60	57	11-149	5	50				
Endrin Aldehyde	74	68	10-148	9	35				
Endrin Ketone	57	0*	22-165	200*	50				
Heptachlor	59	56	13-126	5	50				
Heptachlor Epoxide	70	70	13-157	0	50				
Methoxychlor	64	58	32-147	10	50				
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871 UNSPK: 6423856								

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	70	81	29-146	14	50				
PCB-1260	80	93	39-149	15	50				
Batch number: 112730032A	Sample number(s): 6423871 UNSPK: P419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				
Methanol	87	68	43-138	24*	20				
Batch number: 112790048A	Sample number(s): 6423871 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790036A	Sample number(s): 6423871 UNSPK: P421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112790037A	Sample number(s): 6423871 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Antimony	27*	37*	75-125	20	20	0.200	0.225	12 (1)	20
Arsenic	191*	210*	75-125	4	20	6.56	8.85	30*	20
Beryllium	112	116	75-125	3	20	0.634	0.768	19	20
Cadmium	112	131*	75-125	13	20	0.290	0.352	19 (1)	20
Chromium	168*	208*	75-125	9	20	28.9	33.9	16	20
Cobalt	110	129*	75-125	15	20	9.28	9.17	1	20
Copper	130*	167*	75-125	11	20	18.2	22.9	23*	20
Lead	121 (2)	255 (2)	75-125	16	20	20.1	23.0	14	20
Nickel	136*	179*	75-125	14	20	16.5	19.8	18	20
Silver	110	127*	75-125	15	20	0.0221 J	0.0170 J	26* (1)	20
Thallium	122	144*	75-125	12	20	0.248	0.303	20 (1)	20
Vanadium	243 (2)	285 (2)	75-125	6	20	49.9	62.8	23*	20
Zinc	145 (2)	181 (2)	75-125	5	20	53.3	64.8	20	20
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Selenium	99	110	75-125	10	20	0.244 J	0.293 J	18 (1)	20
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Molybdenum	116	134*	75-125	15	20	0.311	0.440	34* (1)	20
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Barium	202 (2)	320 (2)	75-125	10	20	90.1	107	18	20
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Aluminum	2148 (2)	2670 (2)	75-125	4	20	17,300	17,700	2	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	103	101	84-115	2	20	10.8	10.6	2 (1)	20
Calcium	2589 (2)	909 (2)	75-125	5	20	140,000	134,000	4	20
Iron	768 (2)	672 (2)	75-125	0	20	20,200	23,800	16	20
Lithium	101	102	82-114	0	20	17.9	17.7	1	20
Magnesium	151 (2)	293 (2)	75-125	4	20	5,900	5,920	0	20
Manganese	221 (2)	113 (2)	75-125	16	20	269	303	12	20
Phosphorus	99 (2)	107 (2)	75-125	1	20	437	445	2	20
Potassium	148*	171*	75-125	5	20	3,030	3,040	1	20
Sodium	99	99	75-125	1	20	117	108	7 (1)	20
Strontium	93	87	75-115	3	20	151	149	1	20
Tin	81	80	80-110	2	20	1.87 J	1.88 J	0 (1)	20
Zirconium	96	96	81-110	1	20	3.29 J	4.05 J	21* (1)	20
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Mercury	92	96	65-135	1	20	0.0178 J	0.0126 J	34* (1)	20
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871 UNSPK: 6423870 BKG: 6423870								
Copper	130*	117	75-125	7	20	4.86	5.10	5	20
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Titanium	313 (2)	299 (2)	75-125	2	20	805	816	1	20
Batch number: 11278102201B	Sample number(s): 6423871 UNSPK: P418463 BKG: P418463								
16a Cyanide by 9012B	93		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
3a Cr VI by EPA 7199	89		75-125			0.39 J	0.51 J	26* (1)	20
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285285202B	Sample number(s): 6423869-6423871 UNSPK: 6423870 BKG: 6423870								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
11a Anions by 300.0 - Fluoride	72*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285495201B	Sample number(s): 6423869-6423871 UNSPK: 6423869 BKG: 6423869								
11a Anions by 300.0 - Fluoride	64*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868 BKG: 6423856								
17a pH by 9045C						7.81	7.82	0	3
Batch number: 11285039402B	Sample number(s): 6423869-6423871 BKG: 6423871								
17a pH by 9045C						7.92	7.92	0	3
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871 BKG: 6423856								
28a Moisture Content by 160.3						3.3	3.3	0	20
Moisture Content by 160.3						3.3	3.3	0	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						3.3	3.3	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11284SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	96	103	131*	97	94	97
6423856	90	99	122	94	94	98
6423857	94	101	128	95	93	96
6423858	88	96	115	90	88	88
6423862	93	101	122	96	93	97
6423863	91	98	124	93	89	97
6423864	99	107	129	99	96	100
6423865	98	106	123	97	92	95
6423866	91	98	127	94	90	95
6423867	91	97	118	92	87	99
6423868	89	98	108	94	91	91
6423869	88	95	119	90	88	96
6423870	94	101	117	94	90	99
6423871	91	101	105	95	92	94
Blank	86	94	114	90	98	103
LCS	94	100	127	93	94	96
MS	94	101	128	95	93	96
MSD	88	96	115	90	88	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11284SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	109	92	119
6423856	100	87	98
6423857	113	89	109
6423858	104	78	94
6423862	102	87	96
6423863	93	82	103
6423864	110	87	98
6423865	126	83	91
6423866	41	32*	37*
6423867	86	75	82
6423868	100	87	95
6423869	89	77	90
6423870	98	84	92
6423871	99	85	95

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

Blank	92	81	90
LCS	100	81	92
MS	113	89	109
MSD	104	78	94
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34A

	Trifluorotoluene-F
6423871	94
Blank	96
LCS	92
MS	96
MSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279A20A

	Trifluorotoluene-F
6423872	89
Blank	87
LCS	111
LCSD	113
Limits:	63-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112810010A

	2,4-Dichlorophenylacetic acid
6423855	80
6423856	107
6423857	113
6423858	86
6423860	113
6423862	78
6423863	53
6423864	93
6423865	67
6423866	97
6423867	103
6423868	108
Blank	76
LCS	65
MS	113
MSD	86
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112810037A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

6423855	62	121*
6423856	51	89
6423857	58	71
6423858	54	61
6423860	54	57
6423861	55	58
6423862	60	64
6423863	65	83
6423864	58	69
6423865	59	91
6423866	55	60
6423867	65	73
6423868	54	70
Blank	76	106
LCS	83	111
MS	58	71
MSD	54	61
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112840021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6423855	84	81
6423856	87	91
6423857	73	71
6423858	87	96
6423860	83	93
6423861	70	88
6423862	70	63
6423863	88	95
6423864	68	71
6423865	80	89
6423866	88	91
6423867	45*	51
6423868	60	57
6423869	56	65
6423870	84	92
6423871	90	100
Blank	88	94
LCS	77	86
LCSD	87	105
MS	73	71
MSD	87	96
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112910026A

	2,4-Dichlorophenylacetic acid
6423861	67
Blank	64
LCS	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

MS 61
MSD 60

Limits: 36-156

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6423871	88
Blank	98
LCS	99
MS	87
MSD	64
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6423871	84	90
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6423871	63
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6423871	73
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 1303 Cap# 1269114 Sample# 6423355-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	**MS/MSD sample**
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								**MS/MSD sample**
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
[signature]	09/29/2011 / 1630	[signature] LL 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 4434; 8767 9858 3520	

acct# 13013 Cap# 1269114 Sample# 6423855-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X										
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X										

Relinquished by: (*Signature*) — Date/Time: 09/29/2011 / 1630

Received for Laboratory by: (*Signature*) LLI 9/30/11 0930

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8767 9857 4434; 8767 9858 3520

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269321
SDG: DE259
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA8S-SS-0.0-0.5 Soil	6426110
SL-009-SA8S-SS-0.0-0.5 Soil	6426111
SL-010-SA8S-SS-0.0-0.5 Soil	6426112
SL-011-SA8S-SS-0.0-0.5 Soil	6426113
SL-012-SA8S-SS-0.0-0.5 Soil	6426114
SL-016-SA8S-SS-0.0-0.5 Soil	6426115
SL-017-SA8S-SS-0.0-0.5 Soil	6426116
SL-018-SA8S-SS-0.0-0.5 Soil	6426117
SL-019-SA8S-SS-0.0-0.5 Soil	6426118
SL-020-SA8S-SS-0.0-0.5 Soil	6426119
SL-021-SA8S-SS-0.0-0.5 Soil	6426120
SL-022-SA8S-SS-0.0-0.5 Soil	6426121
SL-023-SA8S-SS-0.0-0.5 Soil	6426122
SL-084-SA7-SB-0.0-1.0 Soil	6426123
SL-113-SA7-SB-0.0-1.0 Soil	6426124
SL-115-SA7-SB-0.5-1.5 Soil	6426125
SL-132-SA7-SB-4.0-5.0 Soil	6426126
SL-132-SA7-SB-8.5-9.5 Soil	6426127
SL-180-SA7-SB-2.0-3.0 Soil	6426128
FB-SA7-SB-093011 Water	6426129
EB-SA7-SB-093011 Water	6426130
TB-092911 Sand	6426131
TB-092911 Water	6426132
TB-092911 Water	6426133

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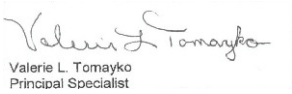
Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.48	J	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	2.7		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	22		6.4	19	1
10138	Fluoranthene	206-44-0	3.3		0.71	1.8	1
10138	Fluorene	86-73-7	0.84	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	1.4	J	0.71	1.8	1
10138	Pyrene	129-00-0	2.2		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	190	J	80	270	1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.18	1
01363	Chlordane	57-74-9	6.0		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.36	1
01363	p,p-DDE	72-55-9	8.8		0.71	3.6	10
01363	p,p-DDT	50-29-3	4.9		0.71	3.6	10
01363	Delta BHC	319-86-8	0.54	U	0.54	0.54	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.25	U	0.25	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.63	U	0.63	0.63	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18	1
01363	Methoxychlor	72-43-5	1.6	U	1.6	1.8	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.36	1
01363	Toxaphene	8001-35-2	17		2.4	7.1	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.6		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.4		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		6.48	21.4	1
07914	Boron	7440-42-8	12.2		0.386	5.36	1
01650	Calcium	7440-70-2	84,200		13.4	107	5
01654	Iron	7439-89-6	27,000		2.80	21.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.0		0.66	2.1	1
01657	Magnesium	7439-95-4	7,570		0.472	10.7	1
06958	Manganese	7439-96-5	386		0.0386	0.536	1
10145	Phosphorus	7723-14-0	588		0.375	10.7	1
01662	Potassium	7440-09-7	5,660		12.1	53.6	1
01667	Sodium	7440-23-5	108		6.38	107	1
07968	Strontium	7440-24-6	108		0.0268	0.536	1
06969	Tin	7440-31-5	2.28	J	0.343	10.7	1
06970	Titanium	7440-32-6	1,020		0.0761	1.07	1
	The Laboratory Control Sample for Titanium recovered at 77%. The Titanium LCS windows are 80-120%. After consultation with the client the data was accepted.						
10146	Zirconium	7440-67-7	4.12	J	0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.55		0.0824	0.412	2
06126	Barium	7440-39-3	96.3		0.109	0.412	2
06127	Beryllium	7440-41-7	0.675		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.295		0.0453	0.103	2
06131	Chromium	7440-47-3	28.9		0.124	0.412	2
06132	Cobalt	7440-48-4	10.6		0.0206	0.103	2
06133	Copper	7440-50-8	21.0		0.0824	0.412	2
06135	Lead	7439-92-1	21.9		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.440		0.0515	0.103	2
06139	Nickel	7440-02-0	19.9		0.103	0.412	2
06141	Selenium	7782-49-2	0.268	J	0.0598	0.412	2
06142	Silver	7440-22-4	0.0303	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.339		0.0309	0.103	2
06148	Vanadium	7440-62-2	52.9		0.0227	0.103	2
06149	Zinc	7440-66-6	70.9		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0414	J	0.0075	0.107	1
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 18:45	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 12:15	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 19:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 04:08	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 04:53	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 18:47	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 04:54	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 07:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 07:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 07:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 11:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 14:10	Elyse P Brunstetter	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.93	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	J	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	1.0	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.3	19	1
10138	Fluoranthene	206-44-0	1.7	J	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.92	J	0.70	1.8	1
10138	Pyrene	129-00-0	1.4	J	0.70	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	320		80	260	1
10401	MCPP (Mecoprop)	93-65-2	110	J	79	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	2.3	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.44		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.69		0.070	0.36	1
01363	Delta BHC	319-86-8	0.040	J	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.36	1
01363	Toxaphene	8001-35-2	4.7	J	4.6	7.0	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300	6.26	20.7	1
07914	Boron	7440-42-8	8.16	0.373	5.18	1
01650	Calcium	7440-70-2	122,000	12.9	104	5
01654	Iron	7439-89-6	23,000	2.70	20.7	1
01656	Lithium	7439-93-2	27.1	0.64	2.1	1
01657	Magnesium	7439-95-4	6,950	0.456	10.4	1
06958	Manganese	7439-96-5	372	0.0373	0.518	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	424		0.362	10.4	1
01662	Potassium	7440-09-7	3,680		11.7	51.8	1
01667	Sodium	7440-23-5	114		6.16	104	1
07968	Strontium	7440-24-6	121		0.0259	0.518	1
06969	Tin	7440-31-5	1.85	J	0.331	10.4	1
06970	Titanium	7440-32-6	870		0.0735	1.04	1
10146	Zirconium	7440-67-7	3.48	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0766	U	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.53		0.0828	0.414	2
06126	Barium	7440-39-3	63.6		0.110	0.414	2
06127	Beryllium	7440-41-7	0.521		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.212		0.0456	0.104	2
06131	Chromium	7440-47-3	25.6		0.124	0.414	2
06132	Cobalt	7440-48-4	5.78		0.0207	0.104	2
06133	Copper	7440-50-8	12.4		0.0828	0.414	2
06135	Lead	7439-92-1	9.34		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.130		0.0518	0.104	2
06139	Nickel	7440-02-0	12.6		0.104	0.414	2
06141	Selenium	7782-49-2	0.167	J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.224		0.0311	0.104	2
06148	Vanadium	7440-62-2	39.3		0.0228	0.104	2
06149	Zinc	7440-66-6	45.2		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:00	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 10:39	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 20:55	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 22:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 19:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:27	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 06:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 12:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 14:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Fluoranthene	206-44-0	19	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.37	J	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.8		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	10		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	47		6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		6.4	19	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.97	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.95	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	2.8		0.71	1.8	1
10138	Pyrene	129-00-0	3.8		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	100	U	100	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	4.2		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	5.4		0.71	3.6	10
01363	p,p-DDT	50-29-3	3.2	J	0.71	3.6	10
01363	Delta BHC	319-86-8	0.52		0.039	0.18	1
01363	Dieldrin	60-57-1	0.093	U	0.093	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.80	U	0.80	1.8	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.36	1
01363	Toxaphene	8001-35-2	8.1	U	8.1	8.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.5		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.4		0.35	1.8	1
10225	PCB-1260	11096-82-5	3.3		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		6.48	21.4	1
07914	Boron	7440-42-8	12.1		0.386	5.36	1
01650	Calcium	7440-70-2	107,000		13.4	107	5
01654	Iron	7439-89-6	25,400		2.80	21.4	1
01656	Lithium	7439-93-2	21.7		0.66	2.1	1
01657	Magnesium	7439-95-4	7,290		0.472	10.7	1
06958	Manganese	7439-96-5	355		0.0386	0.536	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	507		0.375	10.7	1
01662	Potassium	7440-09-7	5,340		12.1	53.6	1
01667	Sodium	7440-23-5	117		6.38	107	1
07968	Strontium	7440-24-6	134		0.0268	0.536	1
06969	Tin	7440-31-5	2.21	J	0.343	10.7	1
06970	Titanium	7440-32-6	971		0.0739	1.04	1
10146	Zirconium	7440-67-7	4.23	J	0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0793	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.85		0.0857	0.429	2
06126	Barium	7440-39-3	76.3		0.114	0.429	2
06127	Beryllium	7440-41-7	0.573		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.310		0.0472	0.107	2
06131	Chromium	7440-47-3	26.5		0.129	0.429	2
06132	Cobalt	7440-48-4	9.15		0.0214	0.107	2
06133	Copper	7440-50-8	17.2		0.0857	0.429	2
06135	Lead	7439-92-1	26.1		0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.302		0.0536	0.107	2
06139	Nickel	7440-02-0	17.5		0.107	0.429	2
06141	Selenium	7782-49-2	0.187	J	0.0622	0.429	2
06142	Silver	7440-22-4	0.0152	U	0.0152	0.107	2
06145	Thallium	7440-28-0	0.225		0.0322	0.107	2
06148	Vanadium	7440-62-2	44.7		0.0236	0.107	2
06149	Zinc	7440-66-6	57.3		0.600	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0308	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:25	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 12:48	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 21:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:15	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:30	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:02	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:35	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 13:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 14:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	1.6	J	0.35	1.8	1
10138	Anthracene	120-12-7	0.56	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	13		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	6.2		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.6		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	11		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	210		6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	18		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60		6.4	19	1
10138	Fluoranthene	206-44-0	12		0.71	1.8	1
10138	Fluorene	86-73-7	2.0		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.93	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	3.4		0.71	1.8	1
10138	Pyrene	129-00-0	11		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	340	U	340	340	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	4.0		0.85	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	2.8		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.8		0.070	0.36	1
01363	Delta BHC	319-86-8	0.15	U	0.15	0.18	1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18	1
01363	Methoxychlor	72-43-5	0.95	U	0.95	1.8	1
01363	Mirex	2385-85-5	0.22	U	0.22	0.36	1
01363	Toxaphene	8001-35-2	9.4	U	9.4	9.4	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,400		6.31	20.9	1
07914	Boron	7440-42-8	10.2		0.375	5.21	1
01650	Calcium	7440-70-2	70,400		13.0	104	5
01654	Iron	7439-89-6	26,500		2.72	20.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.3		0.65	2.1	1
01657	Magnesium	7439-95-4	7,330		0.459	10.4	1
06958	Manganese	7439-96-5	356		0.0375	0.521	1
10145	Phosphorus	7723-14-0	620		0.365	10.4	1
01662	Potassium	7440-09-7	5,170		11.8	52.1	1
01667	Sodium	7440-23-5	98.1	J	6.21	104	1
07968	Strontium	7440-24-6	91.5		0.0261	0.521	1
06969	Tin	7440-31-5	2.27	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,080		0.0748	1.05	1
10146	Zirconium	7440-67-7	3.21	J	0.480	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0764	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.57		0.0826	0.413	2
06126	Barium	7440-39-3	74.7		0.109	0.413	2
06127	Beryllium	7440-41-7	0.591		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.312		0.0454	0.103	2
06131	Chromium	7440-47-3	30.1		0.124	0.413	2
06132	Cobalt	7440-48-4	8.24		0.0207	0.103	2
06133	Copper	7440-50-8	16.2		0.0826	0.413	2
06135	Lead	7439-92-1	19.8		0.0105	0.207	2
06138	Molybdenum	7439-98-7	0.431		0.0516	0.103	2
06139	Nickel	7440-02-0	16.2		0.103	0.413	2
06141	Selenium	7782-49-2	0.259	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0405	J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.257		0.0310	0.103	2
06148	Vanadium	7440-62-2	51.5		0.0227	0.103	2
06149	Zinc	7440-66-6	58.7		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0257	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.67		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:51	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 13:20	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 21:50	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:44	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:39	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 14:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	31		6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.4	J	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	1.6	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	2.2		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.8		0.070	0.36	1
01363	Delta BHC	319-86-8	1.4	U	1.4	1.4	1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.098	U	0.098	0.36	1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2	1
01363	Endrin Ketone	53494-70-5	0.31	U	0.31	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.18	1
01363	Methoxychlor	72-43-5	2.2	U	2.2	2.2	1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46	1
01363	Toxaphene	8001-35-2	13	U	13	13	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	14		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		6.27	20.7	1
07914	Boron	7440-42-8	11.6		0.373	5.18	1
01650	Calcium	7440-70-2	36,200		2.59	20.7	1
01654	Iron	7439-89-6	36,800		13.5	104	5
01656	Lithium	7439-93-2	31.2		0.64	2.1	1
01657	Magnesium	7439-95-4	9,210		0.456	10.4	1
06958	Manganese	7439-96-5	307		0.0373	0.518	1
10145	Phosphorus	7723-14-0	678		0.363	10.4	1
01662	Potassium	7440-09-7	5,170		11.7	51.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	114		6.17	104	1
07968	Strontium	7440-24-6	81.7		0.0259	0.518	1
06969	Tin	7440-31-5	1.98	J	0.332	10.4	1
06970	Titanium	7440-32-6	1,490		0.0750	1.06	1
10146	Zirconium	7440-67-7	3.28	J	0.477	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0774	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.06		0.0837	0.419	2
06126	Barium	7440-39-3	116		0.111	0.419	2
06127	Beryllium	7440-41-7	0.757		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.247		0.0460	0.105	2
06131	Chromium	7440-47-3	32.0		0.126	0.419	2
06132	Cobalt	7440-48-4	12.2		0.0209	0.105	2
06133	Copper	7440-50-8	21.7		0.0837	0.419	2
06135	Lead	7439-92-1	17.6		0.0107	0.209	2
06138	Molybdenum	7439-98-7	0.362		0.0523	0.105	2
06139	Nickel	7440-02-0	20.5		0.105	0.419	2
06141	Selenium	7782-49-2	0.331	J	0.0607	0.419	2
06142	Silver	7440-22-4	0.0384	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.342		0.0314	0.105	2
06148	Vanadium	7440-62-2	64.7		0.0230	0.105	2
06149	Zinc	7440-66-6	77.0		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0329	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.72		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 21:16	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 13:54	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 22:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:14	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 05:59	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 15:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	230	J	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	30	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	4.7		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	26		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.2	19	1
10138	Chrysene	218-01-9	1.6	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	1.7	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.73	J	0.69	1.7	1
10138	Pyrene	129-00-0	1.1	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	1,600		79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.3	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	2.0		0.069	0.35	1
01363	p,p-DDT	50-29-3	2.1		0.069	0.35	1
01363	Delta BHC	319-86-8	0.50		0.038	0.17	1
01363	Dieldrin	60-57-1	0.33	J	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.12	J	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.80	U	0.80	0.80	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.11	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	2.0	U	2.0	2.0	1
01363	Mirex	2385-85-5	0.55	U	0.55	0.55	1
01363	Toxaphene	8001-35-2	13	U	13	13	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	1.1	J	0.34	1.8	1
10225	PCB-1254	11097-69-1	6.8		0.34	1.8	1
10225	PCB-1260	11096-82-5	2.8		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		6.31	20.9	1
07914	Boron	7440-42-8	9.38		0.375	5.21	1
01650	Calcium	7440-70-2	12,400		2.61	20.9	1
01654	Iron	7439-89-6	26,200		2.72	20.9	1
01656	Lithium	7439-93-2	21.6		0.65	2.1	1
01657	Magnesium	7439-95-4	6,900		0.459	10.4	1
06958	Manganese	7439-96-5	462		0.0375	0.521	1
10145	Phosphorus	7723-14-0	827		0.365	10.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	6,450		11.8	52.1	1
01667	Sodium	7440-23-5	86.5	J	6.20	104	1
07968	Strontium	7440-24-6	28.9		0.0261	0.521	1
06969	Tin	7440-31-5	2.19	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,220		0.0733	1.03	1
10146	Zirconium	7440-67-7	2.69	J	0.480	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0772	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.22		0.0834	0.417	2
06126	Barium	7440-39-3	109		0.111	0.417	2
06127	Beryllium	7440-41-7	0.698		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.396		0.0459	0.104	2
06131	Chromium	7440-47-3	28.8		0.125	0.417	2
06132	Cobalt	7440-48-4	10.1		0.0209	0.104	2
06133	Copper	7440-50-8	19.8		0.0834	0.417	2
06135	Lead	7439-92-1	14.4		0.0106	0.209	2
06138	Molybdenum	7439-98-7	0.574		0.0521	0.104	2
06139	Nickel	7440-02-0	20.3		0.104	0.417	2
06141	Selenium	7782-49-2	0.207	J	0.0605	0.417	2
06142	Silver	7440-22-4	0.0519	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.341		0.0313	0.104	2
06148	Vanadium	7440-62-2	49.4		0.0229	0.104	2
06149	Zinc	7440-66-6	77.5		0.584	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0294	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.69		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.1		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 21:41	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 14:25	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 22:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 22:45	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:58	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 15:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.46	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.45	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.2	J	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	3.9		0.36	1.8	5
01363	p,p-DDT	50-29-3	4.6		0.36	1.8	5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.37	U	0.37	0.37	1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.078	U	0.078	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.37	1
01363	Toxaphene	8001-35-2	7.1	U	7.1	7.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate recovery is outside the client sppecified QC limits at 132%.
The recovery is within our in-house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	1.5	J	0.36	1.8	1
10225	PCB-1254	11097-69-1	8.9		0.36	1.8	1
10225	PCB-1260	11096-82-5	6.4		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		6.21	20.5	1
07914	Boron	7440-42-8	10.1		0.369	5.13	1
01650	Calcium	7440-70-2	11,400		2.57	20.5	1
01654	Iron	7439-89-6	25,800		2.68	20.5	1
01656	Lithium	7439-93-2	22.9		0.64	2.1	1
01657	Magnesium	7439-95-4	7,270		0.452	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	497		0.0369	0.513	1
10145	Phosphorus	7723-14-0	864		0.359	10.3	1
01662	Potassium	7440-09-7	6,270		11.6	51.3	1
01667	Sodium	7440-23-5	88.5	J	6.11	103	1
07968	Strontium	7440-24-6	27.8		0.0257	0.513	1
06969	Tin	7440-31-5	2.30	J	0.328	10.3	1
06970	Titanium	7440-32-6	1,210		0.0750	1.06	1
10146	Zirconium	7440-67-7	2.97	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0790	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.77		0.0854	0.427	2
06126	Barium	7440-39-3	107		0.113	0.427	2
06127	Beryllium	7440-41-7	0.626		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.398		0.0469	0.107	2
06131	Chromium	7440-47-3	26.3		0.128	0.427	2
06132	Cobalt	7440-48-4	9.05		0.0213	0.107	2
06133	Copper	7440-50-8	18.5		0.0854	0.427	2
06135	Lead	7439-92-1	19.2		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.570		0.0533	0.107	2
06139	Nickel	7440-02-0	17.4		0.107	0.427	2
06141	Selenium	7782-49-2	0.230	J	0.0619	0.427	2
06142	Silver	7440-22-4	0.0746	J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.284		0.0320	0.107	2
06148	Vanadium	7440-62-2	44.7		0.0235	0.107	2
06149	Zinc	7440-66-6	83.1		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0343	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.56		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:07	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 08:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 23:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:43	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:57	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:17	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 15:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 15:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.99	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.95	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	5.0		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	1.6	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	1.6	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.75	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.88	J	0.69	1.7	1
10138	Pyrene	129-00-0	0.91	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	300		79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.5	20

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.71	U	0.71	3.5	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.5	20
01363	Gamma BHC - Lindane	58-89-9	0.71	U	0.71	3.5	20
01363	Chlordane	57-74-9	51	U	51	71	20
01363	p,p-DDD	72-54-8	1.4	U	1.4	7.1	20
01363	p,p-DDE	72-55-9	59	U	59	59	20
01363	p,p-DDT	50-29-3	74	U	74	74	50
01363	Delta BHC	319-86-8	0.75	U	0.75	3.5	20
01363	Dieldrin	60-57-1	25	U	25	25	20
01363	Endosulfan I	959-98-8	0.92	U	0.92	3.5	20
01363	Endosulfan II	33213-65-9	12	U	12	12	20
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.1	20
01363	Endrin	72-20-8	8.1	U	8.1	8.1	20
01363	Endrin Aldehyde	7421-93-4	6.7	U	6.7	7.1	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.1	20
01363	Heptachlor	76-44-8	1.3	U	1.3	3.5	20
01363	Heptachlor Epoxide	1024-57-3	9.6	U	9.6	9.6	20
01363	Methoxychlor	72-43-5	7.1	U	7.1	35	20
01363	Mirex	2385-85-5	1.4	U	1.4	7.1	20
01363	Toxaphene	8001-35-2	140	U	140	140	20

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The DCB surrogate recovery is outside the client sppecified QC limits at 137%.
The recovery is within our in-house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	340	100
10225	Aroclor 5442	12642-23-8	100	U	100	340	100
10225	Aroclor 5460	11126-42-4	100	U	100	340	100
10225	PCB-1016	12674-11-2	34	U	34	180	100
10225	PCB-1221	11104-28-2	34	U	34	180	100
10225	PCB-1232	11141-16-5	34	U	34	180	100
10225	PCB-1242	53469-21-9	34	U	34	180	100
10225	PCB-1248	12672-29-6	500		34	180	100
10225	PCB-1254	11097-69-1	1,500		34	180	100
10225	PCB-1260	11096-82-5	220		41	180	100
10225	PCB-1262	37324-23-5	34	U	34	180	100
10225	PCB-1268	11100-14-4	34	U	34	180	100

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		6.18	20.4	1
07914	Boron	7440-42-8	8.97		0.368	5.11	1
01650	Calcium	7440-70-2	20,800		2.56	20.4	1
01654	Iron	7439-89-6	30,100		13.3	102	5
01656	Lithium	7439-93-2	24.0		0.63	2.0	1
01657	Magnesium	7439-95-4	7,380		0.450	10.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	474		0.0368	0.511	1
10145	Phosphorus	7723-14-0	840		0.358	10.2	1
01662	Potassium	7440-09-7	6,280		11.6	51.1	1
01667	Sodium	7440-23-5	86.8	J	6.08	102	1
07968	Strontium	7440-24-6	37.8		0.0256	0.511	1
06969	Tin	7440-31-5	2.36	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,200		0.0740	1.04	1
10146	Zirconium	7440-67-7	3.05	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0764	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.24		0.0826	0.413	2
06126	Barium	7440-39-3	107		0.109	0.413	2
06127	Beryllium	7440-41-7	0.690		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.402		0.0454	0.103	2
06131	Chromium	7440-47-3	30.0		0.124	0.413	2
06132	Cobalt	7440-48-4	9.73		0.0206	0.103	2
06133	Copper	7440-50-8	19.2		0.0826	0.413	2
06135	Lead	7439-92-1	13.4		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.504		0.0516	0.103	2
06139	Nickel	7440-02-0	19.3		0.103	0.413	2
06141	Selenium	7782-49-2	0.194	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0484	J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.306		0.0310	0.103	2
06148	Vanadium	7440-62-2	51.0		0.0227	0.103	2
06149	Zinc	7440-66-6	73.9		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0123	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	J	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.44		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 08:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:07	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:37	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 02:17	Jessica L Miller	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 06:18	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 15:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
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Suite 210
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E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	210		17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1

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E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.52	J	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	3.9		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.1	18	1
10138	Fluoranthene	206-44-0	3.0		0.68	1.7	1
10138	Fluorene	86-73-7	1.1	J	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.81	J	0.68	1.7	1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	4.0		0.63	1.7	1
10401	Dicamba	1918-00-9	0.61	J	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	190	U	190	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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LLI Group # 1269321
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E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	2.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	1.6		0.067	0.35	1
01363	p,p-DDT	50-29-3	2.0		0.067	0.35	1
01363	Delta BHC	319-86-8	1.3	U	1.3	1.3	1
01363	Dieldrin	60-57-1	0.21	U	0.21	0.35	1
01363	Endosulfan I	959-98-8	0.27	U	0.27	0.27	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.67	U	0.67	3.5	10
01363	Endrin	72-20-8	0.18	U	0.18	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.99	U	0.99	0.99	1
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17	1
01363	Methoxychlor	72-43-5	1.2	U	1.2	1.7	1
01363	Mirex	2385-85-5	0.26	U	0.26	0.35	1
01363	Toxaphene	8001-35-2	20	U	20	20	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The DCB surrogate recovery is outside the client sppecified QC limits at 129%. The recovery is within our in-house statistical limits of 45-150%. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.95	19.7	1
07914	Boron	7440-42-8	1.70	J	0.354	4.92	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

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Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,480		2.46	19.7	1
01654	Iron	7439-89-6	19,800		2.57	19.7	1
01656	Lithium	7439-93-2	24.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,070		0.433	9.83	1
06958	Manganese	7439-96-5	272		0.0354	0.492	1
10145	Phosphorus	7723-14-0	348		0.344	9.83	1
01662	Potassium	7440-09-7	3,000		11.1	49.2	1
01667	Sodium	7440-23-5	57.7	J	5.85	98.3	1
07968	Strontium	7440-24-6	8.34		0.0246	0.492	1
06969	Tin	7440-31-5	2.50	J	0.315	9.83	1
06970	Titanium	7440-32-6	1,020		0.0719	1.01	1
10146	Zirconium	7440-67-7	1.50	J	0.452	4.92	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0723	J	0.0721	0.195	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0779	0.390	2
06126	Barium	7440-39-3	74.6		0.103	0.390	2
06127	Beryllium	7440-41-7	0.476		0.0156	0.0974	2
06128	Cadmium	7440-43-9	0.153		0.0428	0.0974	2
06131	Chromium	7440-47-3	14.3		0.117	0.390	2
06132	Cobalt	7440-48-4	5.64		0.0195	0.0974	2
06133	Copper	7440-50-8	7.44		0.0779	0.390	2
06135	Lead	7439-92-1	8.31		0.0099	0.195	2
06138	Molybdenum	7439-98-7	0.459		0.0487	0.0974	2
06139	Nickel	7440-02-0	9.48		0.0974	0.390	2
06141	Selenium	7782-49-2	0.125	J	0.0565	0.390	2
06142	Silver	7440-22-4	0.0234	J	0.0138	0.0974	2
06145	Thallium	7440-28-0	0.254		0.0292	0.0974	2
06148	Vanadium	7440-62-2	30.6		0.0214	0.0974	2
06149	Zinc	7440-66-6	55.7		0.545	2.92	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.52	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 09:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 02:41	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 02:55	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 16:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	220		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.71	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.6	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	1.5	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.74	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	1.0		0.071	0.36	1
01363	p,p-DDT	50-29-3	1.1		0.071	0.36	1
01363	Delta BHC	319-86-8	0.72		0.039	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.40	U	0.40	0.40	1
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.74	U	0.74	1.8	1
01363	Mirex	2385-85-5	0.35	U	0.35	0.36	1
01363	Toxaphene	8001-35-2	5.5	U	5.5	7.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.2	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		6.30	20.8	1
07914	Boron	7440-42-8	9.51		0.375	5.21	1
01650	Calcium	7440-70-2	109,000		13.0	104	5
01654	Iron	7439-89-6	27,100		2.72	20.8	1
01656	Lithium	7439-93-2	20.6		0.65	2.1	1
01657	Magnesium	7439-95-4	7,010		0.458	10.4	1
06958	Manganese	7439-96-5	395		0.0375	0.521	1
10145	Phosphorus	7723-14-0	544		0.365	10.4	1
01662	Potassium	7440-09-7	5,050		11.8	52.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	115		6.20	104	1
07968	Strontium	7440-24-6	135		0.0260	0.521	1
06969	Tin	7440-31-5	2.04	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,010		0.0747	1.05	1
10146	Zirconium	7440-67-7	3.21	J	0.479	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.97		0.0833	0.417	2
06126	Barium	7440-39-3	79.5		0.110	0.417	2
06127	Beryllium	7440-41-7	0.581		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.346		0.0458	0.104	2
06131	Chromium	7440-47-3	27.1		0.125	0.417	2
06132	Cobalt	7440-48-4	8.63		0.0208	0.104	2
06133	Copper	7440-50-8	18.0		0.0833	0.417	2
06135	Lead	7439-92-1	23.0		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.427		0.0521	0.104	2
06139	Nickel	7440-02-0	16.5		0.104	0.417	2
06141	Selenium	7782-49-2	0.235	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0311	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.273		0.0313	0.104	2
06148	Vanadium	7440-62-2	44.8		0.0229	0.104	2
06149	Zinc	7440-66-6	63.1		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0160	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.29		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 23:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 09:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:00	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:54	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 06:25	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 16:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	5.5		0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	19		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.6		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.1		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	33		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	220		64	190	10
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	16		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	300		6.4	19	1
10138	Fluoranthene	206-44-0	14		0.71	1.8	1
10138	Fluorene	86-73-7	5.2		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	1.0	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	3.1		0.71	1.8	1
10138	Pyrene	129-00-0	6.8		0.71	1.8	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	3.7		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.29	U	0.29	0.36	1
01363	p,p-DDE	72-55-9	1.4		0.071	0.36	1
01363	p,p-DDT	50-29-3	1.0		0.071	0.36	1
01363	Delta BHC	319-86-8	1.7		0.19	0.89	5
01363	Dieldrin	60-57-1	0.14	U	0.14	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.69	U	0.69	0.69	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.13	U	0.13	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.058	U	0.058	0.18	1
01363	Methoxychlor	72-43-5	0.93	U	0.93	1.8	1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40	1
01363	Toxaphene	8001-35-2	15	U	15	15	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		6.41	21.2	1
07914	Boron	7440-42-8	10.4		0.382	5.30	1
01650	Calcium	7440-70-2	48,700		2.65	21.2	1
01654	Iron	7439-89-6	31,400		13.8	106	5
01656	Lithium	7439-93-2	23.9		0.66	2.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,600		0.466	10.6	1
06958	Manganese	7439-96-5	375		0.0382	0.530	1
10145	Phosphorus	7723-14-0	706		0.371	10.6	1
01662	Potassium	7440-09-7	5,560		12.0	53.0	1
01667	Sodium	7440-23-5	95.7	J	6.31	106	1
07968	Strontium	7440-24-6	58.9		0.0265	0.530	1
06969	Tin	7440-31-5	2.23	J	0.339	10.6	1
06970	Titanium	7440-32-6	1,100		0.0753	1.06	1
10146	Zirconium	7440-67-7	3.92	J	0.488	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0777	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.44		0.0840	0.420	2
06126	Barium	7440-39-3	88.1		0.111	0.420	2
06127	Beryllium	7440-41-7	0.562		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.357		0.0462	0.105	2
06131	Chromium	7440-47-3	31.0		0.126	0.420	2
06132	Cobalt	7440-48-4	7.51		0.0210	0.105	2
06133	Copper	7440-50-8	15.9		0.0840	0.420	2
06135	Lead	7439-92-1	12.8		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.383		0.0525	0.105	2
06139	Nickel	7440-02-0	16.2		0.105	0.420	2
06141	Selenium	7782-49-2	0.201	J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0342	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.262		0.0315	0.105	2
06148	Vanadium	7440-62-2	51.1		0.0231	0.105	2
06149	Zinc	7440-66-6	61.2		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0199	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.61		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 23:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 10:19	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/18/2011 08:36	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 02:26	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:10	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:25	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:13	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 06:44	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 09:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 16:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 16:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	210		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.70	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.51	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.078	U	0.078	0.18	1
01363	Chlordane	57-74-9	3.6	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	2.0		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.9		0.070	0.36	1
01363	Delta BHC	319-86-8	1.2	U	1.2	1.2	5
01363	Dieldrin	60-57-1	0.33	U	0.33	0.36	1
01363	Endosulfan I	959-98-8	0.095	U	0.095	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.36	1
01363	Endrin	72-20-8	0.14	U	0.14	0.36	1
01363	Endrin Aldehyde	7421-93-4	2.2	U	2.2	2.2	1
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	0.34	1
01363	Heptachlor	76-44-8	0.091	U	0.091	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18	1
01363	Methoxychlor	72-43-5	2.1	U	2.1	2.1	1
01363	Mirex	2385-85-5	0.51	U	0.51	0.51	1
01363	Toxaphene	8001-35-2	42	U	42	42	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.3	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600	6.29	20.8	1
07914	Boron	7440-42-8	7.64	0.374	5.20	1
01650	Calcium	7440-70-2	100,000	13.0	104	5
01654	Iron	7439-89-6	23,300	2.71	20.8	1
01656	Lithium	7439-93-2	22.4	0.64	2.1	1
01657	Magnesium	7439-95-4	6,650	0.457	10.4	1
06958	Manganese	7439-96-5	285	0.0374	0.520	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	489		0.364	10.4	1
01662	Potassium	7440-09-7	4,270		11.7	52.0	1
01667	Sodium	7440-23-5	112		6.19	104	1
07968	Strontium	7440-24-6	138		0.0260	0.520	1
06969	Tin	7440-31-5	2.07	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,020		0.0745	1.05	1
10146	Zirconium	7440-67-7	4.98	J	0.478	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0785	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.00		0.0848	0.424	2
06126	Barium	7440-39-3	73.7		0.112	0.424	2
06127	Beryllium	7440-41-7	0.547		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.324		0.0467	0.106	2
06131	Chromium	7440-47-3	34.0		0.127	0.424	2
06132	Cobalt	7440-48-4	7.64		0.0212	0.106	2
06133	Copper	7440-50-8	14.8		0.0848	0.424	2
06135	Lead	7439-92-1	11.9		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.311		0.0530	0.106	2
06139	Nickel	7440-02-0	15.2		0.106	0.424	2
06141	Selenium	7782-49-2	0.249	J	0.0615	0.424	2
06142	Silver	7440-22-4	0.0264	J	0.0151	0.106	2
06145	Thallium	7440-28-0	0.243		0.0318	0.106	2
06148	Vanadium	7440-62-2	53.2		0.0233	0.106	2
06149	Zinc	7440-66-6	58.8		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0281	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.64		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 10:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 02:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:39	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:54	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:32	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 06:52	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 18:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 17:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	260		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.71	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.70	U	0.70	1.8	10
01363	Alpha BHC	319-84-6	0.36	U	0.36	1.8	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.64	U	0.64	1.8	10
01363	Gamma BHC - Lindane	58-89-9	0.36	U	0.36	1.8	10
01363	Chlordane	57-74-9	8.5	U	8.5	36	10
01363	p,p-DDD	72-54-8	0.70	U	0.70	3.6	10
01363	p,p-DDE	72-55-9	4.3		0.70	3.6	10
01363	p,p-DDT	50-29-3	3.0	J	0.70	3.6	10
01363	Delta BHC	319-86-8	12		0.38	1.8	10
01363	Dieldrin	60-57-1	0.70	U	0.70	3.6	10
01363	Endosulfan I	959-98-8	0.47	U	0.47	1.8	10
01363	Endosulfan II	33213-65-9	0.70	U	0.70	3.6	10
01363	Endosulfan Sulfate	1031-07-8	0.70	U	0.70	3.6	10
01363	Endrin	72-20-8	2.3	U	2.3	3.6	10
01363	Endrin Aldehyde	7421-93-4	3.7	U	3.7	3.7	10
01363	Endrin Ketone	53494-70-5	0.70	U	0.70	3.6	10
01363	Heptachlor	76-44-8	0.64	U	0.64	1.8	10
01363	Heptachlor Epoxide	1024-57-3	0.40	J	0.36	1.8	10
01363	Methoxychlor	72-43-5	6.4	U	6.4	18	10
01363	Mirex	2385-85-5	0.70	U	0.70	3.6	10
01363	Toxaphene	8001-35-2	45	U	45	70	10

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		6.18	20.4	1
07914	Boron	7440-42-8	10.6		0.367	5.10	1
01650	Calcium	7440-70-2	95,500		12.8	102	5
01654	Iron	7439-89-6	25,200		2.66	20.4	1
01656	Lithium	7439-93-2	23.1		0.63	2.0	1
01657	Magnesium	7439-95-4	7,060		0.449	10.2	1
06958	Manganese	7439-96-5	347		0.0367	0.510	1
10145	Phosphorus	7723-14-0	642		0.357	10.2	1
01662	Potassium	7440-09-7	5,120		11.5	51.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	94.3	J	6.07	102	1
07968	Strontium	7440-24-6	96.3		0.0255	0.510	1
06969	Tin	7440-31-5	1.84	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,200		0.0746	1.05	1
10146	Zirconium	7440-67-7	2.23	J	0.470	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.80		0.0825	0.412	2
06126	Barium	7440-39-3	87.5		0.109	0.412	2
06127	Beryllium	7440-41-7	0.617		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.384		0.0453	0.103	2
06131	Chromium	7440-47-3	31.4		0.124	0.412	2
06132	Cobalt	7440-48-4	8.67		0.0206	0.103	2
06133	Copper	7440-50-8	15.8		0.0825	0.412	2
06135	Lead	7439-92-1	16.7		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.399		0.0515	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.266	J	0.0598	0.412	2
06142	Silver	7440-22-4	0.0485	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.289		0.0309	0.103	2
06148	Vanadium	7440-62-2	53.8		0.0227	0.103	2
06149	Zinc	7440-66-6	62.8		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0248	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 00:38	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 11:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 03:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:52	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:50	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 07:00	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 18:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.65	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.98	19.8	1
07914	Boron	7440-42-8	0.356	U	0.356	4.94	1
01650	Calcium	7440-70-2	6,950		2.47	19.8	1
01654	Iron	7439-89-6	28,700		12.9	98.8	5
01656	Lithium	7439-93-2	36.1		0.61	2.0	1
01657	Magnesium	7439-95-4	7,430		0.435	9.88	1
06958	Manganese	7439-96-5	509		0.0356	0.494	1
10145	Phosphorus	7723-14-0	521		0.346	9.88	1
01662	Potassium	7440-09-7	2,800		11.2	49.4	1
01667	Sodium	7440-23-5	121		5.88	98.8	1
07968	Strontium	7440-24-6	9.98		0.0247	0.494	1
06969	Tin	7440-31-5	2.50	J	0.316	9.88	1
06970	Titanium	7440-32-6	1,420		0.0715	1.01	1
10146	Zirconium	7440-67-7	1.00	J	0.454	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0841	J	0.0753	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.46		0.0814	0.407	2
06126	Barium	7440-39-3	135		0.108	0.407	2
06127	Beryllium	7440-41-7	0.815		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.190		0.0447	0.102	2
06131	Chromium	7440-47-3	41.6		0.122	0.407	2
06132	Cobalt	7440-48-4	10.3		0.0203	0.102	2
06133	Copper	7440-50-8	15.9		0.0814	0.407	2
06135	Lead	7439-92-1	6.89		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.626		0.0509	0.102	2
06139	Nickel	7440-02-0	29.2		0.102	0.407	2
06141	Selenium	7782-49-2	0.149	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0736	J	0.0144	0.102	2
06145	Thallium	7440-28-0	0.346		0.0305	0.102	2
06148	Vanadium	7440-62-2	58.8		0.0224	0.102	2
06149	Zinc	7440-66-6	77.0		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.79	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:03	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 11:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 23:09	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 07:07	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		6.68	22.1	1
07914	Boron	7440-42-8	0.397	U	0.397	5.52	1
01650	Calcium	7440-70-2	6,810		2.76	22.1	1
01654	Iron	7439-89-6	49,400		14.4	110	5
01656	Lithium	7439-93-2	52.2		0.68	2.2	1
01657	Magnesium	7439-95-4	11,300		0.486	11.0	1
06958	Manganese	7439-96-5	444		0.0397	0.552	1
10145	Phosphorus	7723-14-0	914		0.386	11.0	1
01662	Potassium	7440-09-7	2,610		12.5	55.2	1
01667	Sodium	7440-23-5	834		6.57	110	1
07968	Strontium	7440-24-6	31.7		0.0276	0.552	1
06969	Tin	7440-31-5	3.10	J	0.353	11.0	1
06970	Titanium	7440-32-6	1,430		0.0784	1.10	1
10146	Zirconium	7440-67-7	0.508	U	0.508	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0817	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.8		0.0883	0.442	2
06126	Barium	7440-39-3	298		0.293	1.10	5
06127	Beryllium	7440-41-7	1.64		0.0442	0.276	5
06128	Cadmium	7440-43-9	0.420		0.0486	0.110	2
06131	Chromium	7440-47-3	53.2		0.132	0.442	2
06132	Cobalt	7440-48-4	20.1		0.0221	0.110	2
06133	Copper	7440-50-8	45.8		0.0883	0.442	2
06135	Lead	7439-92-1	18.7		0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.714		0.0552	0.110	2
06139	Nickel	7440-02-0	58.3		0.110	0.442	2
06141	Selenium	7782-49-2	1.72		0.0640	0.442	2
06142	Silver	7440-22-4	1.04		0.0157	0.110	2
06145	Thallium	7440-28-0	0.472		0.0331	0.110	2
06148	Vanadium	7440-62-2	80.4		0.0243	0.110	2
06149	Zinc	7440-66-6	113		0.618	3.31	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0667	J	0.0079	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 12:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 23:28	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 07:11	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:38	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:38	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 11:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		6.16	20.4	1
07914	Boron	7440-42-8	0.367	U	0.367	5.09	1
01650	Calcium	7440-70-2	2,550		2.55	20.4	1
01654	Iron	7439-89-6	19,900		2.66	20.4	1
01656	Lithium	7439-93-2	19.1		0.63	2.0	1
01657	Magnesium	7439-95-4	5,440		0.448	10.2	1
06958	Manganese	7439-96-5	212		0.0367	0.509	1
10145	Phosphorus	7723-14-0	276		0.357	10.2	1
01662	Potassium	7440-09-7	1,280		11.5	50.9	1
01667	Sodium	7440-23-5	509		6.06	102	1
07968	Strontium	7440-24-6	12.7		0.0255	0.509	1
06969	Tin	7440-31-5	2.34	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,320		0.0723	1.02	1
10146	Zirconium	7440-67-7	0.913	J	0.469	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0782	J	0.0761	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.86		0.0823	0.411	2
06126	Barium	7440-39-3	89.7		0.109	0.411	2
06127	Beryllium	7440-41-7	0.576		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.103	2
06131	Chromium	7440-47-3	27.0		0.123	0.411	2
06132	Cobalt	7440-48-4	6.14		0.0206	0.103	2
06133	Copper	7440-50-8	7.81		0.0823	0.411	2
06135	Lead	7439-92-1	4.62		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.467		0.0514	0.103	2
06139	Nickel	7440-02-0	14.0		0.103	0.411	2
06141	Selenium	7782-49-2	0.192	J	0.0597	0.411	2
06142	Silver	7440-22-4	0.0290	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.196		0.0309	0.103	2
06148	Vanadium	7440-62-2	43.8		0.0226	0.103	2
06149	Zinc	7440-66-6	52.7		0.576	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 13:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 11:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 18:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	349	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	3.4		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.72
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

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E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.66	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.54	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	7.4		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

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E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.10	20.2	1
07914	Boron	7440-42-8	0.556	J	0.363	5.04	1
01650	Calcium	7440-70-2	3,210		2.52	20.2	1
01654	Iron	7439-89-6	19,000		2.63	20.2	1
01656	Lithium	7439-93-2	22.3		0.62	2.0	1
01657	Magnesium	7439-95-4	4,110		0.443	10.1	1
06958	Manganese	7439-96-5	242		0.0363	0.504	1
10145	Phosphorus	7723-14-0	319		0.353	10.1	1
01662	Potassium	7440-09-7	2,580		11.4	50.4	1
01667	Sodium	7440-23-5	133		6.00	101	1
07968	Strontium	7440-24-6	17.0		0.0252	0.504	1
06969	Tin	7440-31-5	2.29	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,130		0.0723	1.02	1
10146	Zirconium	7440-67-7	1.42	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.81		0.0814	0.407	2
06126	Barium	7440-39-3	105		0.108	0.407	2
06127	Beryllium	7440-41-7	0.619		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.131		0.0448	0.102	2
06131	Chromium	7440-47-3	19.7		0.122	0.407	2
06132	Cobalt	7440-48-4	6.82		0.0204	0.102	2
06133	Copper	7440-50-8	9.14		0.0814	0.407	2
06135	Lead	7439-92-1	6.71		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.788		0.0509	0.102	2
06139	Nickel	7440-02-0	12.8		0.102	0.407	2
06141	Selenium	7782-49-2	0.122	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0302	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.324		0.0305	0.102	2
06148	Vanadium	7440-62-2	38.3		0.0224	0.102	2
06149	Zinc	7440-66-6	66.8		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0981	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.84	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 18:25	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 02:18	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 13:36	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 10:12	Laura M Krieger	25.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:09	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:09	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 21:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 14:19	Heather E Williams	1

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Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
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E5917 SDG#: DE259-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 04:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 05:56	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 05:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 18:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	357	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	24.9
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.48	J	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	5.6		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	20		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.17	20.4	1
07914	Boron	7440-42-8	1.07	J	0.367	5.10	1
01650	Calcium	7440-70-2	2,910		2.55	20.4	1
01654	Iron	7439-89-6	18,500		2.66	20.4	1
01656	Lithium	7439-93-2	20.7		0.63	2.0	1
01657	Magnesium	7439-95-4	3,930		0.449	10.2	1
06958	Manganese	7439-96-5	398		0.0367	0.510	1
10145	Phosphorus	7723-14-0	244		0.357	10.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,360		11.5	51.0	1
01667	Sodium	7440-23-5	189		6.07	102	1
07968	Strontium	7440-24-6	17.5		0.0255	0.510	1
06969	Tin	7440-31-5	2.46	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,220		0.376	5.30	5
10146	Zirconium	7440-67-7	1.49	J	0.469	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0762	U	0.0762	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.94		0.0824	0.412	2
06126	Barium	7440-39-3	93.8		0.109	0.412	2
06127	Beryllium	7440-41-7	0.579		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.105		0.0453	0.103	2
06131	Chromium	7440-47-3	15.2		0.124	0.412	2
06132	Cobalt	7440-48-4	9.74		0.0206	0.103	2
06133	Copper	7440-50-8	6.53		0.0824	0.412	2
06135	Lead	7439-92-1	6.01		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.466		0.0515	0.103	2
06139	Nickel	7440-02-0	10.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.425		0.0597	0.412	2
06142	Silver	7440-22-4	0.0172	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.242		0.0309	0.103	2
06148	Vanadium	7440-62-2	36.3		0.0226	0.103	2
06149	Zinc	7440-66-6	55.4		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.93	J	0.87	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.19		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.6		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-SA7-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 18:44	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 02:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 14:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 10:49	Laura M Krieger	24.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:10	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:11	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 21:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 14:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 05:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 23:42	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 06:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 06:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 20:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 19:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.37
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.56	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	4.8		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.6		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.24	20.6	1
07914	Boron	7440-42-8	1.36	J	0.371	5.16	1
01650	Calcium	7440-70-2	6,720		2.58	20.6	1
01654	Iron	7439-89-6	15,700		2.69	20.6	1
01656	Lithium	7439-93-2	23.9		0.64	2.1	1
01657	Magnesium	7439-95-4	3,580		0.454	10.3	1
06958	Manganese	7439-96-5	267		0.0371	0.516	1
10145	Phosphorus	7723-14-0	304		0.361	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,980		11.7	51.6	1
01667	Sodium	7440-23-5	108		6.14	103	1
07968	Strontium	7440-24-6	13.1		0.0258	0.516	1
06969	Tin	7440-31-5	2.23	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,000		0.0718	1.01	1
10146	Zirconium	7440-67-7	1.08	J	0.474	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0748	U	0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.86		0.0809	0.405	2
06126	Barium	7440-39-3	90.3		0.107	0.405	2
06127	Beryllium	7440-41-7	0.383		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.111		0.0445	0.101	2
06131	Chromium	7440-47-3	11.7		0.121	0.405	2
06132	Cobalt	7440-48-4	4.30		0.0202	0.101	2
06133	Copper	7440-50-8	5.16		0.0809	0.405	2
06135	Lead	7439-92-1	3.63		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.342		0.0506	0.101	2
06139	Nickel	7440-02-0	7.43		0.101	0.405	2
06141	Selenium	7782-49-2	0.0587	U	0.0587	0.405	2
06142	Silver	7440-22-4	0.0144	U	0.0144	0.101	2
06145	Thallium	7440-28-0	0.226		0.0303	0.101	2
06148	Vanadium	7440-62-2	24.9		0.0222	0.101	2
06149	Zinc	7440-66-6	50.5		0.566	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.21		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-180-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 19:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 03:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 14:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 11:25	Laura M Krieger	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:12	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:12	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 22:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 01:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 15:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 04:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 14:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 06:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 06:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 21:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 19:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **FB-SA7-SB-093011 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7-SB-093011

LLI Sample # WW 6426129
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5920 SDG#: DE259-20FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.478 U	0.478	0.955	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:15	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-093011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-093011

LLI Sample # WW 6426130
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5921 SDG#: DE259-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.952 J	0.478	0.956	1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:34	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092911 Sand
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # SW 6426131
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5922 SDG#: DE259-22TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.5	U	16.5	33.0	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 19:23	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092911 Water
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6426132
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5923 SDG#: DE259-23TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.12	0.496	0.991	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:53	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092911 Water
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6426133
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5924 SDG#: DE259-24TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279C20A	10/10/2011 14:09	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279C20A	10/10/2011 14:09	Marie D John	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278WAC026	Sample number(s): 6426129-6426130,6426132									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	105	93	70-130	12	30
Batch number: 11283SLD026	Sample number(s): 6426126-6426128,6426131									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11284SLC026	Sample number(s): 6426110-6426128									
Aniline	170 U		170.	500	ug/kg	79		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	104		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	108		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	104		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	99		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	101		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	51		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	105		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	114		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	46		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	25		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	105		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobenzene	17	U	17.	170	ug/kg	106		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	101		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		61-109		
Isophorone	17	U	17.	170	ug/kg	107		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	104		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	108		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	106		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	100		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	79		51-117		
Phenol	17	U	17.	170	ug/kg	108		58-112		
2-phenoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	99		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11285SLA026	Sample number(s): 6426110-6426128									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	115		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	12	J	6.0	18	ug/kg	140		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	89		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		72-119		
Batch number: 11274A34B	Sample number(s): 6426126-6426128									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11279C20A	Sample number(s): 6426133									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112790001A	Sample number(s): 6426126-6426128									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 112830002A	Sample number(s): 6426110-6426122									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	75		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	110		62-170		
MCPA	76	U	76.	250	ug/kg	74		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	69		54-137		
2,4,5-T	0.10	J	0.082	0.17	ug/kg	116		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	75		68-114		
Batch number: 112840033A	Sample number(s): 6426110-6426128									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112840037A	Sample number(s): 6426110-6426122									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	74		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	127		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	117		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	123		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	112		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	96		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	71		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	143*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112760023A	Sample number(s): 6426126-6426128									
Ethanol	100		100.	500	ug/kg	98		71-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100	U	100.	500	ug/kg	98		75-125		
Methanol	100	U	100.	500	ug/kg	99		68-129		
Batch number: 112790048A	Sample number(s): 6426126-6426128									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790037A	Sample number(s): 6426126-6426128									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112800012A	Sample number(s): 6426126-6426128									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		49-107		
Batch number: 112785711003	Sample number(s): 6426110-6426128									
Mercury	0.0069	U	0.0069	0.0983	mg/kg	112		82-118		
Batch number: 112791026001A	Sample number(s): 6426110-6426128									
Antimony	0.0712	U	0.0712	0.192	mg/kg	78		40-227		
Arsenic	0.0769	U	0.0769	0.385	mg/kg	102		83-111		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	98		84-112		
Cadmium	0.0423	U	0.0423	0.0962	mg/kg	99		83-111		
Chromium	0.115	U	0.115	0.385	mg/kg	115		77-123		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	103		85-114		
Copper	0.122	J	0.0769	0.385	mg/kg	101		81-110		
Lead	0.0700	J	0.0098	0.192	mg/kg	101		84-112		
Nickel	0.0962	U	0.0962	0.385	mg/kg	101		81-110		
Silver	0.0137	U	0.0137	0.0962	mg/kg	101		83-112		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	102		82-112		
Vanadium	0.0212	U	0.0212	0.0962	mg/kg	103		76-110		
Zinc	0.538	U	0.538	2.88	mg/kg	100		82-110		
Batch number: 112791026001B	Sample number(s): 6426110-6426128									
Selenium	0.0558	U	0.0558	0.385	mg/kg	98		79-110		
Batch number: 112791026001C	Sample number(s): 6426110-6426128									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	100		80-110		
Batch number: 112791026001D	Sample number(s): 6426110-6426128									
Barium	0.102	U	0.102	0.385	mg/kg	105		83-110		
Batch number: 112795708003	Sample number(s): 6426110-6426128									
Aluminum	5.93	U	5.93	19.6	mg/kg	105		51-110		
Boron	0.353	U	0.353	4.90	mg/kg	99		83-110		
Calcium	8.43	J	2.45	19.6	mg/kg	101		81-110		
Iron	6.68	J	2.56	19.6	mg/kg	98		57-110		
Lithium	0.61	U	0.61	2.0	mg/kg	100		80-120		
Magnesium	0.579	J	0.431	9.80	mg/kg	102		68-110		
Manganese	0.221	J	0.0353	0.490	mg/kg	97		85-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.26	J	0.343	9.80	mg/kg	105		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	101		71-110		
Sodium	5.83	U	5.83	98.0	mg/kg	98		76-110		
Strontium	0.0353	J	0.0245	0.490	mg/kg	97		84-110		
Tin	1.44	J	0.314	9.80	mg/kg	94		86-120		
Titanium	0.0696	U	0.0696	0.980	mg/kg	77*		80-120		
Zirconium	0.451	U	0.451	4.90	mg/kg	101		80-120		
Batch number: 112915708001	Sample number(s): 6426111-6426128									
Titanium	0.0710	U	0.0710	1.00	mg/kg	90		80-120		
Batch number: 11284243201A	Sample number(s): 6426110-6426128									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 11286286201A	Sample number(s): 6426110-6426119									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11286286201B	Sample number(s): 6426120-6426128									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11287621201A	Sample number(s): 6426111-6426119									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11287621201B	Sample number(s): 6426120-6426128									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11286039401A	Sample number(s): 6426110-6426118									
17a pH by 9045C						100		95-105		
Batch number: 11286039401B	Sample number(s): 6426119-6426128									
17a pH by 9045C						100		95-105		
Batch number: 11285162401A	Sample number(s): 6426110-6426118									
Moisture Content by 160.3						102		80-120		
Batch number: 11285162401B	Sample number(s): 6426119-6426128,6426131									
Moisture Content by 160.3						102		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11283SLD026	Sample number(s): 6426126-6426128,6426131 UNSPK: P430028								
N-Nitrosodimethylamine	85	92	70-130	9	30				
Batch number: 11284SLC026	Sample number(s): 6426110-6426128 UNSPK: 6426110								
Aniline	77	71	18-116	9	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	40	35	10-173	14	30				
Benzyl alcohol	103	100	67-115	2	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Bromophenyl-phenylether	104	102	67-129	2	30				
Butylbenzylphthalate	96	92	73-134	4	30				
Carbazole	95	90	64-120	6	30				
4-Chloro-3-methylphenol	107	101	62-122	6	30				
4-Chloroaniline	59	57	13-107	4	30				
bis(2-Chloroethoxy)methane	105*	100	75-104	6	30				
bis(2-Chloroethyl)ether	101	99	60-116	2	30				
bis(2-Chloroisopropyl)ether	101	96	55-142	5	30				
2-Chloronaphthalene	81	74	50-141	9	30				
2-Chlorophenol	101	100	73-121	1	30				
4-Chlorophenyl-phenylether	104	98	80-109	6	30				
Dibenzofuran	97	92	71-112	5	30				
1,2-Dichlorobenzene	89	86	66-108	4	30				
1,3-Dichlorobenzene	89	87	63-109	3	30				
1,4-Dichlorobenzene	90	86	58-108	5	30				
3,3'-Dichlorobenzidine	69	66	28-109	4	30				
2,4-Dichlorophenol	105	102	66-123	3	30				
2,4-Dimethylphenol	106	102	68-118	4	30				
3,5-Dimethylphenol	113	108	71-127	5	30				
4,6-Dinitro-2-methylphenol	54	55	11-126	2	30				
2,4-Dinitrophenol	31	29	20-143	5	30				
2,4-Dinitrotoluene	100	96	56-129	4	30				
2,6-Dinitrotoluene	102	97	69-123	5	30				
1,2-Diphenylhydrazine	104	100	71-129	5	30				
bis(2-Ethylhexyl)phthalate	99	95	63-122	5	30				
Fluoranthene	102	97	73-112	4	30				
Hexachlorobenzene	105	101	77-114	4	30				
Hexachlorobutadiene	102	97	62-120	5	30				
Hexachlorocyclopentadiene	88	82	10-153	6	30				
Hexachloroethane	90	87	57-109	4	30				
Isophorone	106*	102	73-102	4	30				
2-Methylphenol	103	102	75-111	2	30				
4-Methylphenol	102	101	59-123	1	30				
2-Nitroaniline	104	99	67-125	5	30				
3-Nitroaniline	96	91	59-122	6	30				
4-Nitroaniline	81	73	41-109	10	30				
Nitrobenzene	106	100	57-125	6	30				
2-Nitrophenol	103	102	56-127	1	30				
4-Nitrophenol	85	79	37-129	7	30				
N-Nitroso-di-n-propylamine	98	96	60-116	1	30				
N-Nitrosodiphenylamine	100	96	71-122	4	30				
Pentachlorophenol	84	87	28-127	3	30				
Phenol	104	103	58-126	1	30				
1,2,4-Trichlorobenzene	101	96	72-115	5	30				
2,4,5-Trichlorophenol	108	103	58-129	5	30				
2,4,6-Trichlorophenol	108	103	56-134	4	30				
Batch number: 11285SLA026	Sample number(s): 6426110-6426128 UNSPK: 6426111								
Acenaphthene	92	98	63-105	7	30				
Acenaphthylene	88	99	67-114	11	30				
Anthracene	94	104	73-115	10	30				
Benzo(a)anthracene	93	104	59-128	10	30				
Benzo(a)pyrene	103	104	58-142	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	130	117	54-163	11	30				
Benzo(g,h,i)perylene	43	54	33-141	23	30				
Benzo(k)fluoranthene	114	115	57-153	1	30				
Butylbenzylphthalate	128	132	57-173	3	30				
Di-n-butylphthalate	119	128	65-148	7	30				
Chrysene	94	99	67-123	5	30				
Dibenz(a,h)anthracene	53	68	22-133	24	30				
Diethylphthalate	113	111	70-136	1	30				
Dimethylphthalate	102	107	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	146	135	39-167	5	30				
Fluoranthene	112	114	51-149	2	30				
Fluorene	98	104	66-122	6	30				
Indeno(1,2,3-cd)pyrene	51	64	21-143	22	30				
1-Methylnaphthalene	94	95	72-123	1	30				
2-Methylnaphthalene	94	95	64-103	1	30				
Naphthalene	96	96	61-102	0	30				
N-Nitrosodimethylamine	92	92	48-113	0	30				
Di-n-octylphthalate	182	155	40-192	16	30				
Phenanthrene	93	99	62-122	6	30				
Pyrene	101	99	51-131	1	30				
Batch number: 11274A34B	Sample number(s): 6426126-6426128 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112790001A	Sample number(s): 6426126-6426128 UNSPK: 6426126								
20a Formaldehyde 8315A	100	95	80-120	5	50				
Batch number: 112830002A	Sample number(s): 6426110-6426122 UNSPK: 6426110								
2,4-D	47	38	17-180	20	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	57	52	10-201	10	50				
Dicamba	52	52	10-190	0	50				
Dinoseb	9*	15	10-46	43*	35				
2,4-DP (Dichlorprop)	82	73	33-178	11	50				
MCPA	126	60	10-213	71*	50				
MCPP (Mecoprop)	44	23	10-184	38	50				
2,4,5-T	12	46	10-156	117*	35				
2,4,5-TP	53	46	24-141	15	35				
Batch number: 112840033A	Sample number(s): 6426110-6426128 UNSPK: 6426110								
PCB-1016	70	70	29-146	1	50				
PCB-1260	81	74	39-149	8	50				
Batch number: 112840037A	Sample number(s): 6426110-6426122 UNSPK: 6426110								
Aldrin	82	73	16-126	12	50				
Alpha BHC	56	56	10-129	0	50				
Beta BHC	69	69	14-147	0	50				
Gamma BHC - Lindane	56	56	10-140	0	50				
p,p-DDD	93	90	16-163	3	50				
p,p-DDE	238 (2)	75 (2)	18-161	11	50				
p,p-DDT	159 (2)	-5 (2)	10-176	23	50				
Delta BHC	1581*	188*	23-140	158*	50				
Dieldrin	94	84	19-154	12	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	53	47	16-137	12	50				
Endosulfan II	123	100	28-154	21	50				
Endosulfan Sulfate	146	120	21-160	20	50				
Endrin	103	63	11-149	49	50				
Endrin Aldehyde	226*	174*	10-148	26	35				
Endrin Ketone	74	76	22-165	2	50				
Heptachlor	71	68	13-126	4	50				
Heptachlor Epoxide	118	103	13-157	14	50				
Methoxychlor	125	117	32-147	6	50				
Batch number: 112760023A	Sample number(s): 6426126-6426128 UNSPK: P421299								
Ethanol	85	90	48-130	6	20				
Isopropanol	100	92	12-149	9	20				
Methanol	100	91	43-138	9	20				
Batch number: 112790048A	Sample number(s): 6426126-6426128 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790037A	Sample number(s): 6426126-6426128 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112800012A	Sample number(s): 6426126-6426128 UNSPK: 6426126								
EFH (C12-C14)	99	90	49-123	9	20				
EFH (C15-C20)	90	98	49-123	7	20				
EFH (C21-C30)	24*	121	49-123	23*	20				
EFH (C30 - C40)	-29 (2)	283 (2)	49-123	34*	20				
EFH (C8-C11)	80	75	49-123	6	20				
Batch number: 112785711003	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Mercury	102	97	65-135	4	20	0.0386 J	0.0384 J	1 (1)	20
Batch number: 112791026001A	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Antimony	21*	20*	75-125	4	20	0.179 J	0.117 J	42* (1)	20
Arsenic	146*	86	75-125	14	20	6.11	5.40	12	20
Beryllium	95	72*	75-125	15	20	0.630	0.569	10	20
Cadmium	114	100	75-125	12	20	0.275	0.274	0 (1)	20
Chromium	132*	109	75-125	6	20	26.9	25.5	5	20
Cobalt	112	99	75-125	12	20	9.88	9.21	7	20
Copper	119	98	75-125	8	20	19.6	17.9	9	20
Lead	242 (2)	131 (2)	75-125	13	20	20.4	21.9	7	20
Nickel	125	89	75-125	13	20	18.6	16.6	11	20
Silver	107	98	75-125	10	20	0.0283 J	0.0293 J	4 (1)	20
Thallium	116	94	75-125	13	20	0.316	0.270	16 (1)	20
Vanadium	178 (2)	137 (2)	75-125	7	20	49.4	46.6	6	20
Zinc	143 (2)	76 (2)	75-125	9	20	66.1	62.3	6	20
Batch number: 112791026001B	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Selenium	100	93	75-125	9	20	0.250 J	0.238 J	5 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 112791026001C	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Molybdenum	102	93	75-125	11	20	0.411		0.438		6 (1)	20
Batch number: 112791026001D	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Barium	183 (2)	73 (2)	75-125	11	20	89.8		78.8		13	20
Batch number: 112795708003	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Aluminum	3710 (2)	3342 (2)	75-125	2	20	21,600		22,600		5	20
Boron	99	100	84-115	4	20	11.4		12.0		6 (1)	20
Calcium	-3536 (2)	-4031 (2)	75-125	4	20	78,500		62,500		23*	20
Iron	2084 (2)	829 (2)	75-125	4	20	25,200		24,800		2	20
Lithium	103	103	82-114	2	20	19.6		19.9		1	20
Magnesium	591 (2)	471 (2)	75-125	2	20	7,070		7,230		2	20
Manganese	3 (2)	18 (2)	75-125	2	20	360		320		12	20
Phosphorus	84 (2)	102 (2)	75-125	3	20	549		551		0	20
Potassium	185 (2)	206 (2)	75-125	4	20	5,280		5,420		3	20
Sodium	96	96	75-125	3	20	101		101		1 (1)	20
Strontium	83	76	75-115	2	20	101		88.1		14	20
Tin	78*	79*	80-110	4	20	2.13	J	1.93	J	10 (1)	20
Titanium	376 (2)	379 (2)	75-125	1	20	948		983		4	20
Zirconium	85	84	81-110	2	20	3.85	J	4.39	J	13 (1)	20
Batch number: 112915708001	Sample number(s): 6426111-6426128 UNSPK: 6426111 BKG: 6426111										
Titanium	339 (2)	367 (2)	75-125	3	20	824		844		2	20
Batch number: 11284243201A	Sample number(s): 6426110-6426128 UNSPK: 6426126 BKG: 6426126										
3a Cr VI by EPA 7199	93		75-125			0.29	J	0.43	J	39* (1)	20
Batch number: 11286286201A	Sample number(s): 6426110-6426119 UNSPK: 6426110 BKG: 6426110										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11286286201B	Sample number(s): 6426120-6426128 UNSPK: 6426120 BKG: 6426120										
7a Perchlorate EPA 314.0	106		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11287621201A	Sample number(s): 6426111-6426119 UNSPK: 6426111 BKG: 6426111										
11a Anions by 300.0 - Fluoride	87		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11287621201B	Sample number(s): 6426120-6426128 UNSPK: 6426120 BKG: 6426120										
11a Anions by 300.0 - Fluoride	77*		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	107		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11286039401A	Sample number(s): 6426110-6426118 BKG: 6426118										
17a pH by 9045C						6.52		6.52		0	3
Batch number: 11286039401B	Sample number(s): 6426119-6426128 BKG: 6426119										
17a pH by 9045C						7.29		7.29		0	3
Batch number: 11285162401A	Sample number(s): 6426110-6426118 BKG: 6426118										
Moisture Content by 160.3						2.2		2.2		0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401B	Sample number(s): 6426119-6426128,6426131 BKG: 6426127								
Moisture Content by 160.3						6.6	5.9	11	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11278WAC026

	N-Nitrosodimethylamine-d6
6426129	131
6426130	267*
6426132	138
Blank	123
LCS	112
LCSD	127
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11283SLD026

	N-Nitrosodimethylamine-d6
6426126	196*
6426127	131
6426128	111
6426131	117
Blank	127
LCS	140
MS	173*
MSD	135
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11284SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6426110	98	98	97	94	88	84
6426111	98	99	101	97	90	87
6426112	98	98	102	95	87	84
6426113	98	98	98	97	90	84
6426114	97	98	96	94	85	81
6426115	97	97	100	95	88	85
6426116	99	99	98	96	87	84
6426117	93	94	101	92	86	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

6426118	96	96	98	93	86	82
6426119	100	100	104	96	90	86
6426120	99	99	101	96	88	85
6426121	99	100	101	97	90	85
6426122	92	95	98	94	88	84
6426123	95	95	97	95	87	85
6426124	90	90	95	88	82	81
6426125	93	94	97	94	86	82
6426126	97	97	94	92	85	84
6426127	88	87	90	86	81	79
6426128	95	94	93	88	84	83
Blank	82	84	85	83	77	74
LCS	98	100	101	98	87	85
MS	96	97	102	97	89	84
MSD	96	96	97	93	85	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11285SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6426110	137*	86	107
6426111	108	92	97
6426112	116	92	101
6426113	105	79	146*
6426114	105	92	102
6426115	117	90	101
6426116	95	88	70
6426117	114	95	76
6426118	139*	80	86
6426119	113	90	65
6426120	221*	56	194*
6426121	113	89	72
6426122	109	94	71
6426123	95	88	72
6426124	100	88	69
6426125	99	89	69
6426126	104	87	74
6426127	101	90	74
6426128	76	69	53
Blank	102	91	91
LCS	111	91	91
MS	128	87	97
MSD	109	92	97
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34B

	Trifluorotoluene-F
6426126	83
6426127	85
6426128	77
Blank	97
LCS	92
MS	96

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Quality Control Summary

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Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

MSD	98

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279C20A

	Trifluorotoluene-F
6426133	86
Blank	86
LCS	111
LCSD	111

Limits: 63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112790001A

	Butyraldehyde
6426126	92
6426127	92
6426128	94
Blank	96
LCS	83
MS	92
MSD	80

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112830002A

	2,4-Dichlorophenylacetic acid
6426110	82
6426111	74
6426112	61
6426113	87
6426114	69
6426115	58
6426116	64
6426117	50
6426118	59
6426119	57
6426120	75
6426121	76
6426122	60
Blank	86
LCS	90
MS	61
MSD	49

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112840033A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

6426110	89	89
6426111	108	110
6426112	97	107
6426113	103	105
6426114	65	70
6426115	106	117
6426116	80	84
6426117	116	188*
6426118	110	119
6426119	88	92
6426120	112	112
6426121	114	119
6426122	121	120
6426123	112	119
6426124	97	100
6426125	123	135*
6426126	155*	170*
6426127	109	99
6426128	106	115
Blank	91	103
LCS	91	104
LCSD	103	119
MS	82	88
MSD	88	90
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112840037A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6426110	63	89
6426111	64	106
6426112	53	80
6426113	62	79
6426114	56	69
6426115	66	81
6426116	57	132*
6426117	112	137*
6426118	65	129*
6426119	79	115
6426120	69	80
6426121	58	97
6426122	59	114
Blank	67	130*
LCS	64	129*
MS	54	83
MSD	56	80
Limits:	50-130	20-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112760023A

	Acetone
6426126	95
6426127	93

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Quality Control Summary

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Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

6426128	91
Blank	101
LCS	99
MS	99
MSD	93
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6426126	65
6426127	62
6426128	62
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6426126	73
6426127	74
6426128	74
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112800012A

	Chlorobenzene	Orthoterphenyl
6426126	84	90
6426127	76	84
6426128	77	85
Blank	76	83
LCS	81	90
MS	80	88
MSD	76	87
Limits:	37-125	47-145

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acct#13013 GP# 1269321 sample# 6426110-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The surface ~~SS~~ SS was added to the samples listed above. NLM 10/4/11

acct# 13013 Grp# 1269391 sample# 6426116-33

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-084-SA7-SB-0.0-1.0	9/30/11	1205	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-113-SA7-SB-0.0-1.0	9/30/11	1406	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-115-SA7-SB-0.5-1.5	9/30/11	1223	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-132-SA7-SB-4.5	9/30/11	0819	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-4.0-5.0	9/30/11	0823	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-132-SA7-SB-8.0	9/30/11	0814	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-8.5-9.5	9/30/11	0810	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-180-SA7-SB-2.5	9/30/11	0947	SOIL	NONE	2-Encores										X											
SL-180-SA7-SB-2.0-3.0	9/30/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
FB-SA7-SB-093011	9/30/11	1240	WATER	NONE	1-1 liter amber														X							
EB-SA7-SB-093011	9/30/11	1245	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	SOIL	NONE	1-4 oz. jar														X							
TB-092911	9/30/11	1430	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*) — Date/Time: 09/30/2011 / 1630 — Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time: 9/30/11 1630 — Airbill No.(s): 8767 9857 4445; 8767 9857 4456

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269323
SDG: DX146
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA8S-SS-0.0-0.5 Soil	6426145
SL-023-SA8S-SS-0.0-0.5 Soil	6426146
SL-084-SA7-SB-0.0-1.0 Soil	6426147
SL-113-SA7-SB-0.0-1.0 Soil	6426148
SL-115-SA7-SB-0.5-1.5 Soil	6426149
SL-132-SA7-SB-4.0-5.0 Soil	6426150
SL-132-SA7-SB-8.5-9.5 Soil	6426151
SL-180-SA7-SB-2.0-3.0 Soil	6426152

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0264	U	0.0264	1.05	1
11031	12378-PeCDD	40321-76-4	0.112	JB	0.0309	5.26	1
11031	123478-HxCDD	39227-28-6	0.0991	J	0.0297	5.26	1
11031	123678-HxCDD	57653-85-7	0.182	JQ	0.0327	5.26	1
11031	123789-HxCDD	19408-74-3	0.153	J	0.0283	5.26	1
11031	1234678-HpCDD	35822-46-9	3.60	JB	0.0328	5.26	1
11031	OCDD	3268-87-9	25.7	B	0.0310	10.5	1
11031	2378-TCDF	51207-31-9	0.128	JQ	0.0559	1.05	1
11031	12378-PeCDF	57117-41-6	0.0992	JBQ	0.0286	5.26	1
11031	23478-PeCDF	57117-31-4	0.165	JB	0.0276	5.26	1
11031	123478-HxCDF	70648-26-9	0.126	JBQ	0.0243	5.26	1
11031	123678-HxCDF	57117-44-9	0.102	JB	0.0223	5.26	1
11031	123789-HxCDF	72918-21-9	0.0240	U	0.0240	5.26	1
11031	234678-HxCDF	60851-34-5	0.130	JBQ	0.0220	5.26	1
11031	1234678-HpCDF	67562-39-4	0.777	JB	0.0181	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0858	JB	0.0243	5.26	1
11031	OCDF	39001-02-0	1.23	JB	0.0256	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 08:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	JQ	0.0403	1.05	1
11031	12378-PeCDD	40321-76-4	0.0967	JB	0.0377	5.25	1
11031	123478-HxCDD	39227-28-6	0.128	JQ	0.0384	5.25	1
11031	123678-HxCDD	57653-85-7	0.310	J	0.0411	5.25	1
11031	123789-HxCDD	19408-74-3	0.333	JQ	0.0666	5.25	1
11031	1234678-HpCDD	35822-46-9	5.75	B	0.0488	5.25	1
11031	OCDD	3268-87-9	40.2	B	0.0346	10.5	1
11031	2378-TCDF	51207-31-9	0.474	J	0.0693	1.05	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0368	5.25	1
11031	23478-PeCDF	57117-31-4	0.0340	U	0.0340	5.25	1
11031	123478-HxCDF	70648-26-9	0.186	JBQ	0.0295	5.25	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0278	5.25	1
11031	123789-HxCDF	72918-21-9	0.0383	JBQ	0.0314	5.25	1
11031	234678-HxCDF	60851-34-5	0.183	JBQ	0.0287	5.25	1
11031	1234678-HpCDF	67562-39-4	1.01	JB	0.0312	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0811	JBQ	0.0387	5.25	1
11031	OCDF	39001-02-0	1.63	JB	0.0310	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 09:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	J	0.0340	1.02	1
11031	12378-PeCDD	40321-76-4	0.0447	JB	0.0271	5.09	1
11031	123478-HxCDD	39227-28-6	0.0473	J	0.0235	5.09	1
11031	123678-HxCDD	57653-85-7	0.0561	JQ	0.0265	5.09	1
11031	123789-HxCDD	19408-74-3	0.0453	JQ	0.0407	5.09	1
11031	1234678-HpCDD	35822-46-9	0.374	JB	0.0230	5.09	1
11031	OCDD	3268-87-9	2.44	JB	0.0205	10.2	1
11031	2378-TCDF	51207-31-9	0.0243	U	0.0243	1.02	1
11031	12378-PeCDF	57117-41-6	0.0527	JB	0.0135	5.09	1
11031	23478-PeCDF	57117-31-4	0.106	JBQ	0.0138	5.09	1
11031	123478-HxCDF	70648-26-9	0.0709	JBQ	0.0205	5.09	1
11031	123678-HxCDF	57117-44-9	0.0683	JBQ	0.0168	5.09	1
11031	123789-HxCDF	72918-21-9	0.0466	JBQ	0.0243	5.09	1
11031	234678-HxCDF	60851-34-5	0.0603	JBQ	0.0127	5.09	1
11031	1234678-HpCDF	67562-39-4	0.144	JBQ	0.0189	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0268	JBQ	0.0251	5.09	1
11031	OCDF	39001-02-0	0.212	JB	0.0345	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 10:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0643	JQ	0.0266	1.11	1
11031	12378-PeCDD	40321-76-4	0.155	JB	0.0249	5.53	1
11031	123478-HxCDD	39227-28-6	0.0587	J	0.0240	5.53	1
11031	123678-HxCDD	57653-85-7	0.487	J	0.0241	5.53	1
11031	123789-HxCDD	19408-74-3	0.643	J	0.0234	5.53	1
11031	1234678-HpCDD	35822-46-9	0.662	JB	0.0255	5.53	1
11031	OCDD	3268-87-9	4.39	JB	0.0200	11.1	1
11031	2378-TCDF	51207-31-9	0.0416	JQ	0.0197	1.11	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0135	5.53	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0142	5.53	1
11031	123478-HxCDF	70648-26-9	0.149	JBQ	0.0185	5.53	1
11031	123678-HxCDF	57117-44-9	0.161	JB	0.0157	5.53	1
11031	123789-HxCDF	72918-21-9	0.0741	JB	0.0218	5.53	1
11031	234678-HxCDF	60851-34-5	0.0789	JBQ	0.0167	5.53	1
11031	1234678-HpCDF	67562-39-4	0.195	JBQ	0.0114	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0386	JBQ	0.0204	5.53	1
11031	OCDF	39001-02-0	0.329	JB	0.0331	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 11:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0285 U	0.0285	1.04	1
11031	12378-PeCDD	40321-76-4	0.0468 JBQ	0.0307	5.20	1
11031	123478-HxCDD	39227-28-6	0.0265 U	0.0265	5.20	1
11031	123678-HxCDD	57653-85-7	0.313 J	0.0270	5.20	1
11031	123789-HxCDD	19408-74-3	0.434 J	0.0283	5.20	1
11031	1234678-HpCDD	35822-46-9	0.395 JB	0.0262	5.20	1
11031	OCDD	3268-87-9	3.13 JB	0.0248	10.4	1
11031	2378-TCDF	51207-31-9	0.0243 J	0.0220	1.04	1
11031	12378-PeCDF	57117-41-6	0.0864 JB	0.0135	5.20	1
11031	23478-PeCDF	57117-31-4	0.110 JBQ	0.0140	5.20	1
11031	123478-HxCDF	70648-26-9	0.0320 JBQ	0.0263	5.20	1
11031	123678-HxCDF	57117-44-9	0.199 JBQ	0.0192	5.20	1
11031	123789-HxCDF	72918-21-9	0.0431 JBQ	0.0208	5.20	1
11031	234678-HxCDF	60851-34-5	0.0565 JB	0.0157	5.20	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.0101	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0163 U	0.0163	5.20	1
11031	OCDF	39001-02-0	0.221 JB	0.0380	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 12:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0241 U	0.0241	1.02	1
11031	12378-PeCDD	40321-76-4	0.0449 JBQ	0.0226	5.09	1
11031	123478-HxCDD	39227-28-6	0.0415 JQ	0.0316	5.09	1
11031	123678-HxCDD	57653-85-7	0.239 J	0.0317	5.09	1
11031	123789-HxCDD	19408-74-3	0.187 JQ	0.0310	5.09	1
11031	1234678-HpCDD	35822-46-9	10.2 B	0.0505	5.09	1
11031	OCDD	3268-87-9	122 B	0.0526	10.2	1
11031	2378-TCDF	51207-31-9	0.0215 U	0.0215	1.02	1
11031	12378-PeCDF	57117-41-6	0.0365 JBQ	0.0140	5.09	1
11031	23478-PeCDF	57117-31-4	0.115 JBQ	0.0130	5.09	1
11031	123478-HxCDF	70648-26-9	0.0727 JBQ	0.0195	5.09	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0182	5.09	1
11031	123789-HxCDF	72918-21-9	0.0498 JBQ	0.0208	5.09	1
11031	234678-HxCDF	60851-34-5	0.0652 JBQ	0.0175	5.09	1
11031	1234678-HpCDF	67562-39-4	0.709 JB	0.0181	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0713 JB	0.0251	5.09	1
11031	OCDF	39001-02-0	1.77 JB	0.0299	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 13:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0427 U	0.0427	1.06	1
11031	12378-PeCDD	40321-76-4	0.0489 JBQ	0.0300	5.28	1
11031	123478-HxCDD	39227-28-6	0.0342 U	0.0342	5.28	1
11031	123678-HxCDD	57653-85-7	0.446 J	0.0332	5.28	1
11031	123789-HxCDD	19408-74-3	0.762 J	0.0307	5.28	1
11031	1234678-HpCDD	35822-46-9	2.70 JB	0.0493	5.28	1
11031	OCDD	3268-87-9	20.9 B	0.0287	10.6	1
11031	2378-TCDF	51207-31-9	0.0334 U	0.0334	1.06	1
11031	12378-PeCDF	57117-41-6	0.0636 JBQ	0.0168	5.28	1
11031	23478-PeCDF	57117-31-4	0.0637 JB	0.0180	5.28	1
11031	123478-HxCDF	70648-26-9	0.0579 JBQ	0.0257	5.28	1
11031	123678-HxCDF	57117-44-9	0.182 JB	0.0209	5.28	1
11031	123789-HxCDF	72918-21-9	0.110 JBQ	0.0243	5.28	1
11031	234678-HxCDF	60851-34-5	0.0422 JB	0.0198	5.28	1
11031	1234678-HpCDF	67562-39-4	0.364 JB	0.0153	5.28	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0267	5.28	1
11031	OCDF	39001-02-0	0.667 JB	0.0484	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 17:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0376	JQ	0.0366	1.02	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	5.12	1
11031	123478-HxCDD	39227-28-6	0.0217	U	0.0217	5.12	1
11031	123678-HxCDD	57653-85-7	0.0787	JQ	0.0220	5.12	1
11031	123789-HxCDD	19408-74-3	0.127	JQ	0.0220	5.12	1
11031	1234678-HpCDD	35822-46-9	0.591	JBQ	0.0301	5.12	1
11031	OCDD	3268-87-9	2.78	JB	0.0195	10.2	1
11031	2378-TCDF	51207-31-9	0.0294	U	0.0294	1.02	1
11031	12378-PeCDF	57117-41-6	0.0278	JB	0.0159	5.12	1
11031	23478-PeCDF	57117-31-4	0.0980	JBQ	0.0169	5.12	1
11031	123478-HxCDF	70648-26-9	0.0426	JBQ	0.0168	5.12	1
11031	123678-HxCDF	57117-44-9	0.0179	JBQ	0.0140	5.12	1
11031	123789-HxCDF	72918-21-9	0.0730	JBQ	0.0155	5.12	1
11031	234678-HxCDF	60851-34-5	0.0712	JBQ	0.0134	5.12	1
11031	1234678-HpCDF	67562-39-4	0.191	JB	0.0102	5.12	1
11031	1234789-HpCDF	55673-89-7	0.0489	JBQ	0.0182	5.12	1
11031	OCDF	39001-02-0	0.252	JBQ	0.0377	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 18:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152								
Moisture Content by 160.3					102		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11283001	Sample number(s): 6426145-6426152								
2378-TCDD	0.0290 U	0.0290	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0326 J	0.0224	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0170 U	0.0170	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0176 U	0.0176	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0169 U	0.0169	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	96		70-140		
OCDD	0.392 J	0.0160	10.0	ng/kg	95		78-144		
2378-TCDF	0.0216 U	0.0216	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0149 J	0.0125	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0319 J	0.0127	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0314 J	0.0139	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0471 J	0.0114	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0484 J	0.0132	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0274 J	0.0107	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.129 J	0.00980	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0187 J	0.0142	5.00	ng/kg	96		78-138		
OCDF	0.121 J	0.0323	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152 BKG: P426127								
Moisture Content by 160.3						6.6	5.9	11	20
Batch number: 11283001	Sample number(s): 6426145-6426152 UNSPK: P422605								
2378-TCDD	96	101	67-158	4	25				
12378-PeCDD	99	99	70-142	1	25				
123478-HxCDD	97	100	70-164	2	25				
123678-HxCDD	94	98	76-134	4	25				
123789-HxCDD	96	97	64-162	0	25				
1234678-HpCDD	95	99	70-140	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	95	169*	78-144	54*	25				
2378-TCDF	94	96	75-158	2	25				
12378-PeCDF	95	95	80-134	0	25				
23478-PeCDF	94	94	68-160	1	25				
123478-HxCDF	93	95	72-134	2	25				
123678-HxCDF	93	92	84-130	1	25				
123789-HxCDF	94	95	78-130	0	25				
234678-HxCDF	94	94	70-156	1	25				
1234678-HpCDF	91	91	82-122	0	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	94	94	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11283001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6426145	73	65	62	67	69	74
6426146	76	71	69	72	71	76
6426147	70	64	44	52	67	44
6426148	79	67	64	76	70	65
6426149	70	60	39	53	64	58
6426150	77	72	69	75	77	76
6426151	72	65	56	67	67	65
6426152	74	67	55	68	68	68
Blank	80	72	62	74	76	74
MS	75	68	16*	15*	70	73
MSD	78	70	41	44	74	75
OPR	69	65	22	24	67	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6426145	79	71	74	68	81	78
6426146	77	77	78	73	78	77
6426147	71	65	66	69	82	75
6426148	95	65	66	76	86	86
6426149	76	59	60	70	82	84
6426150	88	76	81	76	85	87
6426151	89	63	65	72	78	81
6426152	92	64	68	77	83	87
Blank	92	74	78	82	92	92
MS	27	67	69	73	78	75
MSD	65	69	72	77	91	85
OPR	43	69	70	74	81	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6426145	86	83	86	69	68	
6426146	47	86	89	77	71	
6426147	47	87	90	68	69	
6426148	85	89	93	71	76	
6426149	80	86	88	64	70	
6426150	85	92	98	76	76	
6426151	80	86	90	67	76	
6426152	82	90	97	69	78	
Blank	92	100	105	73	80	
MS	81	85	87	71	75	
MSD	96	91	94	74	79	
OPR	83	93	96	62	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1269323 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The Surface code SS was added to the samples above per PB. NLM 10/4/11

acct# 1303 Grp# 1269393 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-084-SA7-SB-0.0-1.0	9/30/11	1205	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-113-SA7-SB-0.0-1.0	9/30/11	1406	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-115-SA7-SB-0.5-1.5	9/30/11	1223	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-132-SA7-SB-4.5	9/30/11	0819	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-4.0-5.0	9/30/11	0823	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-132-SA7-SB-9.0	9/30/11	0814	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-8.5-9.5	9/30/11	0810	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-180-SA7-SB-2.5	9/30/11	0947	SOIL	NONE	2-Encores										X											
SL-180-SA7-SB-2.0-3.0	9/30/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
FB-SA7-SB-093011	9/30/11	1240	WATER	NONE	1-1 liter amber														X							
EB-SA7-SB-093011	9/30/11	1245	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	SOIL	NONE	1-4 oz. jar														X							
TB-092911	9/30/11	1430	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0845	8767 9857 4445; 8767 9857 4456	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269114
SDG: DE258
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423855
SL-003-SA8S-SS-0.0-0.5 Soil	6423856
SL-003-SA8S-SS-0.0-0.5MS Soil	6423857
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423858
SL-003-SA8S-SS-0.0-0.5DUP Soil	6423859
SL-003-SA8S-SS-0.0-0.5RL MS Soil	6423860
SL-003-SA8S-SS-0.0-0.5RL LCS Soil	6423861
SL-005-SA8S-SS-0.0-0.5 Soil	6423862
SL-007-SA8S-SS-0.0-0.5 Soil	6423863
SL-013-SA8S-SS-0.0-0.5 Soil	6423864
SL-014-SA8S-SS-0.0-0.5 Soil	6423865
SL-015-SA8S-SS-0.0-0.5 Soil	6423866
SL-024-SA8S-SS-0.0-0.5 Soil	6423867
DUP01-SA8S-QC-092911 Soil	6423868
SL-126-SA7-SB-4.0-5.0 Soil	6423869
SL-127-SA7-SB-4.0-5.0 Soil	6423870
SL-177-SA7-SB-3.0-4.0 Soil	6423871
TB-092911 Water	6423872

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.91	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.1	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.3	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	1.2	J	0.71	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	1,900		81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.072	J	0.036	0.18	1
01363	Chlordane	57-74-9	1.5	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.52	U	0.52	0.52	1
01363	p,p-DDE	72-55-9	0.85		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.82		0.070	0.36	1
01363	Delta BHC	319-86-8	0.44		0.038	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.095	U	0.095	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.36	1
01363	Toxaphene	8001-35-2	5.3	U	5.3	7.0	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate recovery is above the client specified limits of 20-120%, however it is within the laboratory's in-house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.8	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.2		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		6.35	21.0	1
07914	Boron	7440-42-8	14.5		0.378	5.25	1
01650	Calcium	7440-70-2	76,800		13.1	105	5
01654	Iron	7439-89-6	37,700		13.7	105	5
01656	Lithium	7439-93-2	25.3		0.65	2.1	1
01657	Magnesium	7439-95-4	7,650		0.462	10.5	1
06958	Manganese	7439-96-5	337		0.0378	0.525	1
10145	Phosphorus	7723-14-0	638		0.367	10.5	1
01662	Potassium	7440-09-7	5,170		11.9	52.5	1
01667	Sodium	7440-23-5	118		6.25	105	1
07968	Strontium	7440-24-6	125		0.0262	0.525	1
06969	Tin	7440-31-5	2.14	J	0.336	10.5	1
06970	Titanium	7440-32-6	1,350		0.0724	1.02	1
10146	Zirconium	7440-67-7	2.86	J	0.483	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.225		0.0755	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.60		0.0816	0.408	2
06126	Barium	7440-39-3	138		0.108	0.408	2
06127	Beryllium	7440-41-7	0.853		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.389		0.0449	0.102	2
06131	Chromium	7440-47-3	47.4		0.122	0.408	2
06132	Cobalt	7440-48-4	12.2		0.0204	0.102	2
06133	Copper	7440-50-8	23.5		0.0816	0.408	2
06135	Lead	7439-92-1	18.2		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.461		0.0510	0.102	2
06139	Nickel	7440-02-0	25.7		0.102	0.408	2
06141	Selenium	7782-49-2	0.489		0.0591	0.408	2
06142	Silver	7440-22-4	0.0357	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.420		0.0306	0.102	2
06148	Vanadium	7440-62-2	86.2		0.0224	0.102	2
06149	Zinc	7440-66-6	90.9		0.571	3.06	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0073	0.103	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.43		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:38	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 02:10	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
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E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 12:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	130	U	130	260	1
10401	MCPP (Mecoprop)	93-65-2	280		77	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.18	1
	The LCS data is outside the QC limits for various compounds. Results from the						

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract..						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.48		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.42	U	0.42	0.42	1
01363	Delta BHC	319-86-8	0.059	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		6.19	20.5	1
07914	Boron	7440-42-8	11.2		0.369	5.12	1
01650	Calcium	7440-70-2	144,000		12.8	102	5
01654	Iron	7439-89-6	20,900		2.67	20.5	1
01656	Lithium	7439-93-2	18.5		0.63	2.0	1
01657	Magnesium	7439-95-4	6,100		0.451	10.2	1
06958	Manganese	7439-96-5	278		0.0369	0.512	1
10145	Phosphorus	7723-14-0	452		0.358	10.2	1
01662	Potassium	7440-09-7	3,130		11.6	51.2	1
01667	Sodium	7440-23-5	121		6.09	102	1
07968	Strontium	7440-24-6	156		0.0256	0.512	1
06969	Tin	7440-31-5	1.94	J	0.328	10.2	1
06970	Titanium	7440-32-6	832		0.0706	0.994	1
10146	Zirconium	7440-67-7	3.40	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0811	0.406	2
06126	Barium	7440-39-3	93.2		0.107	0.406	2
06127	Beryllium	7440-41-7	0.656		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.300		0.0446	0.101	2
06131	Chromium	7440-47-3	29.9		0.122	0.406	2
06132	Cobalt	7440-48-4	9.60		0.0203	0.101	2
06133	Copper	7440-50-8	18.8		0.0811	0.406	2
06135	Lead	7439-92-1	20.8		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.322		0.0507	0.101	2
06139	Nickel	7440-02-0	17.1		0.101	0.406	2
06141	Selenium	7782-49-2	0.252	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.0229	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.257		0.0304	0.101	2
06148	Vanadium	7440-62-2	51.6		0.0223	0.101	2
06149	Zinc	7440-66-6	55.1		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0184	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:23	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 14:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 00:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:56	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:25	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:11	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

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E5802 SDG#: DE258-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 11:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 11:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 13:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,700		17	170	1
04688	Aniline	62-53-3	1,400		170	520	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	3,200	J	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170	1
04688	Benzoic acid	65-85-0	220	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,600		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	2,100		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		34	170	1
04688	4-Chloroaniline	106-47-8	1,100		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170	1
04688	Chrysene	218-01-9	1,900		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	560		170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340	1
04688	Fluoranthene	206-44-0	1,900		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	2,100		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,900		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,700	34	170	1
04688	4-Methylphenol	106-44-5	1,700	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,500	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	34	170	1
04688	4-Nitroaniline	100-01-6	1,200	69	170	1
04688	Nitrobenzene	98-95-3	1,700	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,500	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,200	170	520	1
04688	Phenanthrene	85-01-8	1,800	17	170	1
04688	Phenol	108-95-2	1,700	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.69	1.7	1
10138	Acenaphthylene	208-96-8	32	0.34	1.7	1
10138	Anthracene	120-12-7	34	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	34	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	34	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	66	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	33	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	35	0.69	1.7	1
10138	Diethylphthalate	84-66-2	36	6.2	19	1
10138	Dimethylphthalate	131-11-3	35	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.2	19	1
10138	Fluoranthene	206-44-0	35	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	34		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	31		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	31		0.69	1.7	1
10138	Naphthalene	91-20-3	31		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	33		0.69	1.7	1
10138	Pyrene	129-00-0	34		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.4		1.2	3.7	1
10401	Dalapon	75-99-0	11		4.5	9.2	1
10401	2,4-DB	94-82-6	6.7		0.64	1.7	1
10401	Dicamba	1918-00-9	0.73	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.2	J	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.82	1.7	1
10401	MCPA	94-74-6	1,600		78	260	1
10401	MCPP (Mecoprop)	93-65-2	610		77	260	1
10401	2,4,5-T	93-76-5	0.60		0.084	0.18	1
10401	2,4,5-TP	93-72-1	0.13	J	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.19		0.035	0.18	1
01363	Beta BHC	319-85-7	0.20		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.50		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.97		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.87		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.35		0.068	0.35	1
01363	Endosulfan I	959-98-8	0.14	J	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.53		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.41		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.51		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.38		0.068	0.35	1
01363	Heptachlor	76-44-8	0.21		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.3		0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	12	U	12	12	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	12		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	14		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		6.26	20.7	1
07914	Boron	7440-42-8	223		0.372	5.17	1
01650	Calcium	7440-70-2	155,000		12.9	103	5
01654	Iron	7439-89-6	21,700		2.70	20.7	1
01656	Lithium	7439-93-2	123		0.64	2.1	1
01657	Magnesium	7439-95-4	6,410		0.455	10.3	1
06958	Manganese	7439-96-5	392		0.0372	0.517	1
10145	Phosphorus	7723-14-0	554		0.362	10.3	1
01662	Potassium	7440-09-7	4,660		11.7	51.7	1
01667	Sodium	7440-23-5	1,150		6.15	103	1
07968	Strontium	7440-24-6	252		0.0259	0.517	1
06969	Tin	7440-31-5	335		0.331	10.3	1
06970	Titanium	7440-32-6	1,150		0.0727	1.02	1
10146	Zirconium	7440-67-7	103		0.476	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.530		0.0743	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.6		0.0803	0.402	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	113	0.106	0.402	2
06127	Beryllium	7440-41-7	1.56	0.0161	0.100	2
06128	Cadmium	7440-43-9	1.42	0.0442	0.100	2
06131	Chromium	7440-47-3	46.8	0.120	0.402	2
06132	Cobalt	7440-48-4	64.8	0.0201	0.100	2
06133	Copper	7440-50-8	31.8	0.0803	0.402	2
06135	Lead	7439-92-1	24.4	0.0102	0.201	2
06138	Molybdenum	7439-98-7	12.0	0.0502	0.100	2
06139	Nickel	7440-02-0	30.7	0.100	0.402	2
06141	Selenium	7782-49-2	2.24	0.0582	0.402	2
06142	Silver	7440-22-4	11.1	0.0143	0.100	2
06145	Thallium	7440-28-0	0.747	0.0301	0.100	2
06148	Vanadium	7440-62-2	76.1	0.0221	0.100	2
06149	Zinc	7440-66-6	69.7	0.562	3.01	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0073	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	584	9.3	31.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.9	1.0	5.2	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:48	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 15:10	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:44	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:29	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:16	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		17	170	1
04688	Acenaphthylene	208-96-8	1,500		17	170	1
04688	Aniline	62-53-3	970		170	520	1
04688	Anthracene	120-12-7	1,600		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	200	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,800		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,500		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		34	170	1
04688	4-Chloroaniline	106-47-8	550		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170	1
04688	Dibenzofuran	132-64-9	1,500		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	700		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,500		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,500		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	720		170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,600		17	170	1
04688	Fluorene	86-73-7	1,500		17	170	1
04688	Hexachlorobenzene	118-74-1	1,900		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,800		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,400	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170	1
04688	2-Methylphenol	95-48-7	1,500	34	170	1
04688	4-Methylphenol	106-44-5	1,500	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,400	17	170	1
04688	2-Nitroaniline	88-74-4	1,400	17	170	1
04688	3-Nitroaniline	99-09-2	1,300	34	170	1
04688	4-Nitroaniline	100-01-6	1,000	69	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,500	170	520	1
04688	Phenanthrene	85-01-8	1,500	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,500	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.69	1.7	1
10138	Acenaphthylene	208-96-8	28	0.34	1.7	1
10138	Anthracene	120-12-7	30	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	29	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	30	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	19	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	30	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	51	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	30	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.69	1.7	1
10138	Diethylphthalate	84-66-2	34	6.2	19	1
10138	Dimethylphthalate	131-11-3	31	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.2	19	1
10138	Fluoranthene	206-44-0	32	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	31		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	28		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	27		0.69	1.7	1
10138	Naphthalene	91-20-3	28		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	28		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	29		0.69	1.7	1
10138	Pyrene	129-00-0	29		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.6		1.2	3.7	1
10401	Dalapon	75-99-0	8.9	J	4.5	9.3	1
10401	2,4-DB	94-82-6	5.5		0.64	1.8	1
10401	Dicamba	1918-00-9	0.72	J	0.41	1.2	1
10401	Dinoseb	88-85-7	5.2		0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.83	1.8	1
10401	MCPA	94-74-6	1,800		78	260	1
10401	MCPP (Mecoprop)	93-65-2	660		77	260	1
10401	2,4,5-T	93-76-5	0.40		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.36		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.18		0.035	0.18	1
01363	Beta BHC	319-85-7	0.18		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.48		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.91		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.81		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.32	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.18		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.47		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.34	J	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.39		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.47		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.20		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.19	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	8.6	U	8.6	8.6	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	14		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	16		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		6.19	20.5	1
07914	Boron	7440-42-8	219		0.369	5.12	1
01650	Calcium	7440-70-2	148,000		12.8	102	5
01654	Iron	7439-89-6	21,600		2.67	20.5	1
01656	Lithium	7439-93-2	123		0.63	2.0	1
01657	Magnesium	7439-95-4	6,700		0.451	10.2	1
06958	Manganese	7439-96-5	336		0.0369	0.512	1
10145	Phosphorus	7723-14-0	561		0.358	10.2	1
01662	Potassium	7440-09-7	4,880		11.6	51.2	1
01667	Sodium	7440-23-5	1,130		6.09	102	1
07968	Strontium	7440-24-6	245		0.0256	0.512	1
06969	Tin	7440-31-5	328		0.328	10.2	1
06970	Titanium	7440-32-6	1,130		0.0706	0.994	1
10146	Zirconium	7440-67-7	102		0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.650		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.0		0.0811	0.406	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	126	0.107	0.406	2
06127	Beryllium	7440-41-7	1.60	0.0162	0.101	2
06128	Cadmium	7440-43-9	1.63	0.0446	0.101	2
06131	Chromium	7440-47-3	51.0	0.122	0.406	2
06132	Cobalt	7440-48-4	75.1	0.0203	0.101	2
06133	Copper	7440-50-8	35.7	0.0811	0.406	2
06135	Lead	7439-92-1	28.5	0.0103	0.203	2
06138	Molybdenum	7439-98-7	13.9	0.0507	0.101	2
06139	Nickel	7440-02-0	35.2	0.101	0.406	2
06141	Selenium	7782-49-2	2.49	0.0588	0.406	2
06142	Silver	7440-22-4	12.9	0.0144	0.101	2
06145	Thallium	7440-28-0	0.841	0.0304	0.101	2
06148	Vanadium	7440-62-2	80.5	0.0223	0.101	2
06149	Zinc	7440-66-6	73.4	0.568	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175	0.0069	0.0979	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:13	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 19:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:26	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:03	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.02	19.9	1
07914	Boron	7440-42-8	10.9		0.358	4.97	1
01650	Calcium	7440-70-2	139,000		12.4	99.4	5
01654	Iron	7439-89-6	24,600		2.60	19.9	1
01656	Lithium	7439-93-2	18.3		0.62	2.0	1
01657	Magnesium	7439-95-4	6,120		0.438	9.94	1
06958	Manganese	7439-96-5	313		0.0358	0.497	1
10145	Phosphorus	7723-14-0	460		0.348	9.94	1
01662	Potassium	7440-09-7	3,150		11.2	49.7	1
01667	Sodium	7440-23-5	112		5.92	99.4	1
07968	Strontium	7440-24-6	154		0.0249	0.497	1
06969	Tin	7440-31-5	1.95	J	0.318	9.94	1
06970	Titanium	7440-32-6	844		0.0727	1.02	1
10146	Zirconium	7440-67-7	4.19	J	0.457	4.97	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.15		0.0795	0.398	2
06126	Barium	7440-39-3	111		0.105	0.398	2
06127	Beryllium	7440-41-7	0.794		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.364		0.0438	0.0994	2
06131	Chromium	7440-47-3	35.1		0.119	0.398	2
06132	Cobalt	7440-48-4	9.48		0.0199	0.0994	2
06133	Copper	7440-50-8	23.7		0.0795	0.398	2
06135	Lead	7439-92-1	23.8		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.455		0.0497	0.0994	2
06139	Nickel	7440-02-0	20.4		0.0994	0.398	2
06141	Selenium	7782-49-2	0.303	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0176	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.313		0.0298	0.0994	2
06148	Vanadium	7440-62-2	64.9		0.0219	0.0994	2
06149	Zinc	7440-66-6	67.1		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:26	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

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Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	3.9	J	3.8	9.3	1
10401	2,4-DB	94-82-6	1.6	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.46	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.3	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.83	1.8	1
10401	MCPA	94-74-6	890		79	260	1
10401	MCPP (Mecoprop)	93-65-2	120	J	78	260	1
10401	2,4,5-T	93-76-5	0.45		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.43		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.087	J	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.084	J	0.035	0.17	1
01363	Beta BHC	319-85-7	0.10	J	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.094	J	0.035	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.23	J	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.64		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.50		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.16	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.16	J	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.20	J	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.29	J	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.22	J	0.068	0.35	1
01363	Heptachlor	76-44-8	0.10	J	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.074	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	1.0	J	0.35	1.7	1
01363	Mirex	2385-85-5	0.30	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.2	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.7	J	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	3.2		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	3.3		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 03:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:40	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.0		1.2	3.6	1
10401	Dalapon	75-99-0	3.9	J	3.5	9.0	1
10401	2,4-DB	94-82-6	1.7		0.62	1.7	1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.61	J	0.60	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3		0.80	1.7	1
10401	MCPA	94-74-6	160	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	120	J	75	250	1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.13	J	0.075	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.088	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.12	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.093	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.18	J	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.16	J	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.16	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.11	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.12	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.11	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.12	J	0.066	0.34	1
01363	Endrin	72-20-8	0.14	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.14	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.094	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.068	J	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.78	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.4	J	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112910026A	10/21/2011 03:55	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:59	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112910026A	10/19/2011 10:45	Kelli M Barto	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	0.90	U	0.90	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.22		0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35	1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.16	20.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	8.92		0.366	5.09	1
01650	Calcium	7440-70-2	239,000		12.7	102	5
01654	Iron	7439-89-6	11,100		2.66	20.4	1
01656	Lithium	7439-93-2	12.7		0.63	2.0	1
01657	Magnesium	7439-95-4	3,930		0.448	10.2	1
06958	Manganese	7439-96-5	167		0.0366	0.509	1
10145	Phosphorus	7723-14-0	228		0.356	10.2	1
01662	Potassium	7440-09-7	1,460		11.5	50.9	1
01667	Sodium	7440-23-5	120		6.05	102	1
07968	Strontium	7440-24-6	182		0.0254	0.509	1
06969	Tin	7440-31-5	1.44	J	0.326	10.2	1
06970	Titanium	7440-32-6	542		0.0722	1.02	1
10146	Zirconium	7440-67-7	2.30	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.49		0.0814	0.407	2
06126	Barium	7440-39-3	82.4		0.108	0.407	2
06127	Beryllium	7440-41-7	0.478		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.232		0.0448	0.102	2
06131	Chromium	7440-47-3	23.8		0.122	0.407	2
06132	Cobalt	7440-48-4	4.85		0.0204	0.102	2
06133	Copper	7440-50-8	9.34		0.0806	0.403	2
06135	Lead	7439-92-1	6.61		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.136		0.0509	0.102	2
06139	Nickel	7440-02-0	9.79		0.102	0.407	2
06141	Selenium	7782-49-2	0.143	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0144	U	0.0144	0.102	2
06145	Thallium	7440-28-0	0.123		0.0305	0.102	2
06148	Vanadium	7440-62-2	37.4		0.0224	0.102	2
06149	Zinc	7440-66-6	27.9		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0987	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:03	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:18	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:57	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.35	1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.35	1
01363	Delta BHC	319-86-8	0.045	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	4.7	U	4.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.27	20.7	1
07914	Boron	7440-42-8	9.04		0.373	5.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	242,000		12.9	104	5
01654	Iron	7439-89-6	13,600		2.70	20.7	1
01656	Lithium	7439-93-2	15.3		0.64	2.1	1
01657	Magnesium	7439-95-4	4,330		0.456	10.4	1
06958	Manganese	7439-96-5	180		0.0373	0.518	1
10145	Phosphorus	7723-14-0	279		0.362	10.4	1
01662	Potassium	7440-09-7	1,640		11.7	51.8	1
01667	Sodium	7440-23-5	117		6.16	104	1
07968	Strontium	7440-24-6	142		0.0259	0.518	1
06969	Tin	7440-31-5	1.50	J	0.331	10.4	1
06970	Titanium	7440-32-6	674		0.0743	1.05	1
10146	Zirconium	7440-67-7	2.00	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.87		0.0829	0.414	2
06126	Barium	7440-39-3	88.6		0.110	0.414	2
06127	Beryllium	7440-41-7	0.418		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.225		0.0456	0.104	2
06131	Chromium	7440-47-3	23.8		0.124	0.414	2
06132	Cobalt	7440-48-4	6.87		0.0207	0.104	2
06133	Copper	7440-50-8	12.6		0.0829	0.414	2
06135	Lead	7439-92-1	10.9		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.277		0.0518	0.104	2
06139	Nickel	7440-02-0	13.2		0.104	0.414	2
06141	Selenium	7782-49-2	0.213	J	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.176		0.0311	0.104	2
06148	Vanadium	7440-62-2	38.5		0.0228	0.104	2
06149	Zinc	7440-66-6	34.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.2		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:28	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:54	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:37	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:08	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/10/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.41	J	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	27		6.2	18	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	18	1
10138	Chrysene	218-01-9	0.89	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.2	18	1
10138	Fluoranthene	206-44-0	1.3	J	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.80	J	0.68	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.4	J	0.64	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	380		78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17	1
10401	2,4,5-TP	93-72-1	0.26		0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA and 2,4,5-TP were not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.060	J	0.035	0.17	1
01363	Chlordane	57-74-9	2.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.068	0.35	1
01363	p,p-DDT	50-29-3	1.9		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	U	0.14	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.27	U	0.27	0.35	1
01363	Toxaphene	8001-35-2	4.3	U	4.3	6.8	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.5	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.99	19.8	1
07914	Boron	7440-42-8	7.63		0.356	4.95	1
01650	Calcium	7440-70-2	35,400		2.48	19.8	1
01654	Iron	7439-89-6	21,500		2.58	19.8	1
01656	Lithium	7439-93-2	25.1		0.61	2.0	1
01657	Magnesium	7439-95-4	5,380		0.436	9.90	1
06958	Manganese	7439-96-5	328		0.0356	0.495	1
10145	Phosphorus	7723-14-0	469		0.347	9.90	1
01662	Potassium	7440-09-7	3,850		11.2	49.5	1
01667	Sodium	7440-23-5	72.2	J	5.89	99.0	1
07968	Strontium	7440-24-6	37.8		0.0248	0.495	1
06969	Tin	7440-31-5	2.24	J	0.317	9.90	1
06970	Titanium	7440-32-6	1,100		0.0717	1.01	1
10146	Zirconium	7440-67-7	1.71	J	0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0762	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.58		0.0824	0.412	2
06126	Barium	7440-39-3	108		0.109	0.412	2
06127	Beryllium	7440-41-7	0.690		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.235		0.0453	0.103	2
06131	Chromium	7440-47-3	25.8		0.124	0.412	2
06132	Cobalt	7440-48-4	8.91		0.0206	0.103	2
06133	Copper	7440-50-8	14.3		0.0816	0.408	2
06135	Lead	7439-92-1	13.9		0.0105	0.206	2
06138	Molybdenum	7439-98-7	2.03		0.0515	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.221	J	0.0597	0.412	2
06142	Silver	7440-22-4	0.0298	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.351		0.0309	0.103	2
06148	Vanadium	7440-62-2	49.8		0.0227	0.103	2
06149	Zinc	7440-66-6	82.8		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0070	0.100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.00		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:54	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:55	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
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E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.78	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.42	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.0		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.3		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	16		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	47		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	2.7		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.2	19	1
10138	Fluoranthene	206-44-0	4.6		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	1.6	J	0.69	1.7	1
10138	Pyrene	129-00-0	2.8		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.94	J	0.65	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.21		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	2.4	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.80		0.069	0.35	1
01363	Delta BHC	319-86-8	0.054	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.098	U	0.098	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	1.4	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		6.32	20.9	1
07914	Boron	7440-42-8	12.2		0.376	5.22	1
01650	Calcium	7440-70-2	68,000		13.0	104	5
01654	Iron	7439-89-6	24,200		2.72	20.9	1
01656	Lithium	7439-93-2	23.9		0.65	2.1	1
01657	Magnesium	7439-95-4	6,800		0.459	10.4	1
06958	Manganese	7439-96-5	402		0.0376	0.522	1
10145	Phosphorus	7723-14-0	615		0.365	10.4	1
01662	Potassium	7440-09-7	4,610		11.8	52.2	1
01667	Sodium	7440-23-5	94.3	J	6.21	104	1
07968	Strontium	7440-24-6	73.1		0.0261	0.522	1
06969	Tin	7440-31-5	2.20	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,050		0.0741	1.04	1
10146	Zirconium	7440-67-7	2.13	J	0.480	5.22	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92		0.0795	0.398	2
06126	Barium	7440-39-3	115		0.105	0.398	2
06127	Beryllium	7440-41-7	0.748		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.324		0.0437	0.0994	2
06131	Chromium	7440-47-3	32.3		0.119	0.398	2
06132	Cobalt	7440-48-4	9.79		0.0199	0.0994	2
06133	Copper	7440-50-8	19.2		0.0795	0.398	2
06135	Lead	7439-92-1	14.9		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.531		0.0497	0.0994	2
06139	Nickel	7440-02-0	21.1		0.0994	0.398	2
06141	Selenium	7782-49-2	0.315	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0323	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.367		0.0298	0.0994	2
06148	Vanadium	7440-62-2	51.4		0.0219	0.0994	2
06149	Zinc	7440-66-6	72.3		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0068	0.0965	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:19	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:49	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:33	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.8	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	200	U	200	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	0.57		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.29	J	0.069	0.36	1
01363	Delta BHC	319-86-8	0.20		0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.55	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		6.14	20.3	1
07914	Boron	7440-42-8	10.9		0.366	5.08	1
01650	Calcium	7440-70-2	96,600		12.7	102	5
01654	Iron	7439-89-6	23,400		2.65	20.3	1
01656	Lithium	7439-93-2	22.6		0.63	2.0	1
01657	Magnesium	7439-95-4	6,720		0.447	10.2	1
06958	Manganese	7439-96-5	451		0.0366	0.508	1
10145	Phosphorus	7723-14-0	578		0.355	10.2	1
01662	Potassium	7440-09-7	4,370		11.5	50.8	1
01667	Sodium	7440-23-5	115		6.04	102	1
07968	Strontium	7440-24-6	101		0.0254	0.508	1
06969	Tin	7440-31-5	1.91	J	0.325	10.2	1
06970	Titanium	7440-32-6	1,070		0.0728	1.03	1
10146	Zirconium	7440-67-7	2.65	J	0.467	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0759	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.44		0.0820	0.410	2
06126	Barium	7440-39-3	105		0.109	0.410	2
06127	Beryllium	7440-41-7	0.710		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.338		0.0451	0.103	2
06131	Chromium	7440-47-3	31.3		0.123	0.410	2
06132	Cobalt	7440-48-4	9.63		0.0205	0.103	2
06133	Copper	7440-50-8	18.0		0.0820	0.410	2
06135	Lead	7439-92-1	11.3		0.0105	0.205	2
06138	Molybdenum	7439-98-7	0.491		0.0513	0.103	2
06139	Nickel	7440-02-0	19.2		0.103	0.410	2
06141	Selenium	7782-49-2	0.291	J	0.0595	0.410	2
06142	Silver	7440-22-4	0.0292	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.356		0.0308	0.103	2
06148	Vanadium	7440-62-2	53.2		0.0226	0.103	2
06149	Zinc	7440-66-6	63.8		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:44	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:53	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:52	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:37	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	210	U	210	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.20		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor

Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	2.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.62		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.94		0.069	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.9	U	2.9	6.9	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		6.33	20.9	1
07914	Boron	7440-42-8	11.2		0.377	5.23	1
01650	Calcium	7440-70-2	109,000		13.1	105	5
01654	Iron	7439-89-6	25,200		2.73	20.9	1
01656	Lithium	7439-93-2	25.5		0.65	2.1	1
01657	Magnesium	7439-95-4	6,680		0.460	10.5	1
06958	Manganese	7439-96-5	330		0.0377	0.523	1
10145	Phosphorus	7723-14-0	500		0.366	10.5	1
01662	Potassium	7440-09-7	4,220		11.8	52.3	1
01667	Sodium	7440-23-5	104	J	6.22	105	1
07968	Strontium	7440-24-6	106		0.0262	0.523	1
06969	Tin	7440-31-5	2.06	J	0.335	10.5	1
06970	Titanium	7440-32-6	980		0.0721	1.02	1
10146	Zirconium	7440-67-7	3.31	J	0.481	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.35		0.0829	0.414	2
06126	Barium	7440-39-3	98.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.684		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.263		0.0456	0.104	2
06131	Chromium	7440-47-3	34.8		0.124	0.414	2
06132	Cobalt	7440-48-4	9.74		0.0207	0.104	2
06133	Copper	7440-50-8	18.4		0.0829	0.414	2
06135	Lead	7439-92-1	16.7		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.324		0.0518	0.104	2
06139	Nickel	7440-02-0	18.9		0.104	0.414	2
06141	Selenium	7782-49-2	0.631		0.0601	0.414	2
06142	Silver	7440-22-4	0.0209	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.330		0.0311	0.104	2
06148	Vanadium	7440-62-2	59.0		0.0228	0.104	2
06149	Zinc	7440-66-6	64.6		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.99	J	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:09	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:11	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:40	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.9		0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8	1
10401	MCPA	94-74-6	180	U	180	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.33	U	0.33	0.33	1
10401	2,4,5-TP	93-72-1	0.23	U	0.23	0.23	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4-DB was not detected in the reextract. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.6	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35	1
01363	p,p-DDE	72-55-9	0.53		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.43	U	0.43	0.43	1
01363	Delta BHC	319-86-8	0.055	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.35	1
01363	Toxaphene	8001-35-2	7.8	U	7.8	7.8	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.54	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.18	20.4	1
07914	Boron	7440-42-8	10.4		0.368	5.11	1
01650	Calcium	7440-70-2	134,000		12.8	102	5
01654	Iron	7439-89-6	21,300		2.67	20.4	1
01656	Lithium	7439-93-2	18.9		0.63	2.0	1
01657	Magnesium	7439-95-4	6,510		0.450	10.2	1
06958	Manganese	7439-96-5	268		0.0368	0.511	1
10145	Phosphorus	7723-14-0	455		0.358	10.2	1
01662	Potassium	7440-09-7	3,360		11.5	51.1	1
01667	Sodium	7440-23-5	116		6.08	102	1
07968	Strontium	7440-24-6	151		0.0255	0.511	1
06969	Tin	7440-31-5	1.99	J	0.327	10.2	1
06970	Titanium	7440-32-6	834		0.0733	1.03	1
10146	Zirconium	7440-67-7	3.54	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.253		0.0756	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.86		0.0817	0.409	2
06126	Barium	7440-39-3	108		0.108	0.409	2
06127	Beryllium	7440-41-7	0.749		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.343		0.0450	0.102	2
06131	Chromium	7440-47-3	32.6		0.123	0.409	2
06132	Cobalt	7440-48-4	10.2		0.0204	0.102	2
06133	Copper	7440-50-8	22.9		0.0817	0.409	2
06135	Lead	7439-92-1	22.9		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.440		0.0511	0.102	2
06139	Nickel	7440-02-0	19.8		0.102	0.409	2
06141	Selenium	7782-49-2	0.284	J	0.0593	0.409	2
06142	Silver	7440-22-4	0.0184	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.303		0.0307	0.102	2
06148	Vanadium	7440-62-2	61.4		0.0225	0.102	2
06149	Zinc	7440-66-6	64.6		0.572	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0070	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:34	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 07:11	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:29	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:44	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.52	21.6	1
07914	Boron	7440-42-8	2.58	J	0.388	5.39	1
01650	Calcium	7440-70-2	2,110		2.69	21.6	1
01654	Iron	7439-89-6	19,500		2.81	21.6	1
01656	Lithium	7439-93-2	24.3		0.67	2.2	1
01657	Magnesium	7439-95-4	3,780		0.474	10.8	1
06958	Manganese	7439-96-5	282		0.0388	0.539	1
10145	Phosphorus	7723-14-0	282		0.377	10.8	1
01662	Potassium	7440-09-7	4,020		12.2	53.9	1
01667	Sodium	7440-23-5	85.6	J	6.41	108	1
07968	Strontium	7440-24-6	19.5		0.0269	0.539	1
06969	Tin	7440-31-5	2.45	J	0.345	10.8	1
06970	Titanium	7440-32-6	1,250		0.0736	1.04	1
10146	Zirconium	7440-67-7	1.76	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0855	J	0.0782	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.03		0.0845	0.423	2
06126	Barium	7440-39-3	134		0.112	0.423	2
06127	Beryllium	7440-41-7	0.667		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.164		0.0465	0.106	2
06131	Chromium	7440-47-3	16.8		0.127	0.423	2
06132	Cobalt	7440-48-4	6.53		0.0211	0.106	2
06133	Copper	7440-50-8	9.64		0.0862	0.431	2
06135	Lead	7439-92-1	6.61		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.878		0.0528	0.106	2
06139	Nickel	7440-02-0	12.2		0.106	0.423	2
06141	Selenium	7782-49-2	0.0991	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0360	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.357		0.0317	0.106	2
06148	Vanadium	7440-62-2	34.5		0.0232	0.106	2
06149	Zinc	7440-66-6	69.6		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.99		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:59	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 01:07	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 18:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.58	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.83	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.5		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.3	19	1
10138	Fluoranthene	206-44-0	8.3		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	4.6		0.70	1.7	1
10138	Pyrene	129-00-0	5.3		0.70	1.7	1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 7.6 ug/kg indeno(1,2,3-cd)pyrene 1.1 ug/kg These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. These compounds were not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,250		6.20	20.5	1
07914	Boron	7440-42-8	1.20	J	0.369	5.13	1
01650	Calcium	7440-70-2	4,850		2.56	20.5	1
01654	Iron	7439-89-6	16,600		2.68	20.5	1
01656	Lithium	7439-93-2	27.5		0.64	2.1	1
01657	Magnesium	7439-95-4	4,000		0.451	10.3	1
06958	Manganese	7439-96-5	248		0.0369	0.513	1
10145	Phosphorus	7723-14-0	308		0.359	10.3	1
01662	Potassium	7440-09-7	2,940		11.6	51.3	1
01667	Sodium	7440-23-5	81.2	J	6.10	103	1
07968	Strontium	7440-24-6	13.2		0.0256	0.513	1
06969	Tin	7440-31-5	2.26	J	0.328	10.3	1
06970	Titanium	7440-32-6	1,080		0.0735	1.04	1
10146	Zirconium	7440-67-7	0.573	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0860	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.12		0.0829	0.414	2
06126	Barium	7440-39-3	90.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.407		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0757	J	0.0456	0.104	2
06131	Chromium	7440-47-3	13.2		0.124	0.414	2
06132	Cobalt	7440-48-4	4.99		0.0207	0.104	2
06133	Copper	7440-50-8	5.08		0.0812	0.406	2
06135	Lead	7439-92-1	3.75		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.289		0.0518	0.104	2
06139	Nickel	7440-02-0	8.73		0.104	0.414	2
06141	Selenium	7782-49-2	0.0601	U	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.271		0.0311	0.104	2
06148	Vanadium	7440-62-2	28.6		0.0228	0.104	2
06149	Zinc	7440-66-6	60.3		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071 U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0 J	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.63	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:24	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:41	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 17:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.61
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	1.4		0.42	1.3	1
10199	EFH (C21-C30)	n.a.	2.0		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	4.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.16	20.4	1
07914	Boron	7440-42-8	1.87	J	0.366	5.09	1
01650	Calcium	7440-70-2	1,670		2.54	20.4	1
01654	Iron	7439-89-6	16,200		2.66	20.4	1
01656	Lithium	7439-93-2	21.9		0.63	2.0	1
01657	Magnesium	7439-95-4	3,280		0.448	10.2	1
06958	Manganese	7439-96-5	191		0.0366	0.509	1
10145	Phosphorus	7723-14-0	210		0.356	10.2	1
01662	Potassium	7440-09-7	2,650		11.5	50.9	1
01667	Sodium	7440-23-5	108		6.05	102	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	11.4		0.0254	0.509	1
06969	Tin	7440-31-5	2.38	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,080		0.0737	1.04	1
10146	Zirconium	7440-67-7	0.838	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0830	0.415	2
06126	Barium	7440-39-3	102		0.110	0.415	2
06127	Beryllium	7440-41-7	0.735		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0806	J	0.0456	0.104	2
06131	Chromium	7440-47-3	15.9		0.124	0.415	2
06132	Cobalt	7440-48-4	5.11		0.0207	0.104	2
06133	Copper	7440-50-8	5.45		0.0847	0.423	2
06135	Lead	7439-92-1	6.03		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.627		0.0519	0.104	2
06139	Nickel	7440-02-0	10.3		0.104	0.415	2
06141	Selenium	7782-49-2	0.176	J	0.0602	0.415	2
06142	Silver	7440-22-4	0.0351	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.323		0.0311	0.104	2
06148	Vanadium	7440-62-2	31.4		0.0228	0.104	2
06149	Zinc	7440-66-6	61.4		0.581	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.92		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-177-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:49	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 19:58	Laura M Krieger	25.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127325703	09/30/2011 13:07	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127325703	09/30/2011 13:08	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 23:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:56	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 13:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 20:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

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Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 19:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:16	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-092911 Water
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6423872
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5813 SDG#: DE258-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279A20A	10/07/2011 13:14	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279A20A	10/07/2011 13:14	Marie D John	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	67		20-115		
Anthracene	17	U	17.	170	ug/kg	103		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	106		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	108		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	47*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	117*		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	101		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	97		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	110		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	106		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	45		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	40*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	105		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Fluoranthene	17	U	17.	170	ug/kg	110		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	120*		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	107		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	106		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	63		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	78		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	1.5	J	0.67	1.7	ug/kg	96		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	1.4	J	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	7.6	J	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	1.1	J	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11274A34A	Sample number(s): 6423871									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11279A20A	Sample number(s): 6423872									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868									
2,4-D	1.2	U	1.2	3.6	ug/kg	77		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	37		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	81		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	51*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	95		62-170		
MCPA	76	U	76.	250	ug/kg	53*		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	47*		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	63*		68-114		
Batch number: 112910026A	Sample number(s): 6423861									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	23		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	98		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	92		62-170		
MCPA	76	U	76.	250	ug/kg	62		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	55		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	74		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	125		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	100		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	62		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	91		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	65	66	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	72		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	82		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730032A	Sample number(s): 6423871									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	98		68-129		
Batch number: 112790048A	Sample number(s): 6423871									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790036A	Sample number(s): 6423871									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112790037A	Sample number(s): 6423871									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871									
Antimony	0.0725	U	0.0725	0.196	mg/kg	76		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	97		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	94		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	95		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	105		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	98		85-114		
Copper	0.977		0.0784	0.392	mg/kg	102		81-110		
Lead	0.121	J	0.0100	0.196	mg/kg	96		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	99		81-110		
Silver	0.0360	J	0.0139	0.0980	mg/kg	100		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	96		82-112		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	97		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	96		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871									
Selenium	0.0569	U	0.0569	0.392	mg/kg	94		79-110		
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	101		80-110		
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871									
Barium	0.104	U	0.104	0.392	mg/kg	96		83-110		
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871									
Aluminum	14.0	J	5.99	19.8	mg/kg	105		51-110		
Boron	0.356	U	0.356	4.95	mg/kg	103		83-110		
Calcium	13.0	J	2.48	19.8	mg/kg	103		81-110		
Iron	7.03	J	2.58	19.8	mg/kg	94		57-110		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	5.37	J	0.436	9.90	mg/kg	103		68-110		
Manganese	0.0762	J	0.0356	0.495	mg/kg	99		85-116		
Phosphorus	1.34	J	0.347	9.90	mg/kg	106		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	102		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	98		76-110		
Strontium	0.0535	J	0.0248	0.495	mg/kg	99		84-110		
Tin	1.32	J	0.317	9.90	mg/kg	96		86-120		
Zirconium	0.455	U	0.455	4.95	mg/kg	107		80-120		
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871									
Mercury	0.0067	U	0.0067	0.0946	mg/kg	95		83-119		
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871									
Copper	0.0769	U	0.0769	0.385	mg/kg	92		81-110		
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871									
Titanium	0.0860	J	0.0710	1.00	mg/kg	97		80-120		
Batch number: 11278102201B	Sample number(s): 6423871									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285285202B	Sample number(s): 6423869-6423871									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285495201B	Sample number(s): 6423869-6423871									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868									
17a pH by 9045C						100		95-105		
Batch number: 11285039402B	Sample number(s): 6423869-6423871									
17a pH by 9045C						100		95-105		
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	96	87	75-115	10	30				
Acenaphthylene	100	90	81-110	10	30				
Aniline	79	56	18-116	34*	30				
Anthracene	106	92	75-115	14	30				
Benzidine	38	0*	35-141	200*	30				
Benzo(a)anthracene	106	92	65-122	14	30				
Benzo(a)pyrene	110	96	57-126	13	30				
Benzo(b)fluoranthene	108	95	59-125	12	30				
Benzo(g,h,i)perylene	106	98	59-127	8	30				
Benzo(k)fluoranthene	109	91	56-132	18	30				
Benzoic acid	13	12	10-173	11	30				
Benzyl alcohol	92	107	67-115	15	30				
4-Bromophenyl-phenylether	120	107	67-129	11	30				
Butylbenzylphthalate	98	90	73-134	9	30				
Di-n-butylphthalate	103	92	67-123	11	30				
Carbazole	101	86	64-120	16	30				
4-Chloro-3-methylphenol	96	84	62-122	14	30				
4-Chloroaniline	66	32	13-107	69*	30				
bis(2-Chloroethoxy)methane	98	92	75-104	6	30				
bis(2-Chloroethyl)ether	100	91	60-116	10	30				
bis(2-Chloroisopropyl)ether	82	78	55-142	5	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	98	90	73-121	8	30				
4-Chlorophenyl-phenylether	101	89	80-109	12	30				
Chrysene	109	93	62-128	16	30				
Dibenz(a,h)anthracene	110	99	65-125	11	30				
Dibenzofuran	95	85	71-112	12	30				
1,2-Dichlorobenzene	89	83	66-108	7	30				
1,3-Dichlorobenzene	87	82	63-109	6	30				
1,4-Dichlorobenzene	87	80	58-108	8	30				
3,3'-Dichlorobenzidine	62	41	28-109	41*	30				
2,4-Dichlorophenol	104	94	66-123	10	30				
Diethylphthalate	97	86	66-118	12	30				
2,4-Dimethylphenol	100	90	68-118	11	30				
3,5-Dimethylphenol	103	93	71-127	10	30				
Dimethylphthalate	99	87	64-118	12	30				
4,6-Dinitro-2-methylphenol	33	42	11-126	25	30				
2,4-Dinitrophenol	0*	20	20-143	200*	30				
2,4-Dinitrotoluene	98	86	56-129	14	30				
2,6-Dinitrotoluene	107	94	69-123	13	30				
1,2-Diphenylhydrazine	107	96	71-129	11	30				
bis(2-Ethylhexyl)phthalate	98	92	63-122	7	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	111	94	73-112	17	30				
Fluorene	98	87	63-121	12	30				
Hexachlorobenzene	123*	110	77-114	11	30				
Hexachlorobutadiene	109	103	62-120	6	30				
Hexachlorocyclopentadiene	116	117	10-153	1	30				
Hexachloroethane	93	89	57-109	4	30				
Indeno(1,2,3-cd)pyrene	109	98	61-126	10	30				
Isophorone	96	89	73-102	8	30				
1-Methylnaphthalene	91	83	64-122	10	30				
2-Methylnaphthalene	94	86	76-114	9	30				
2-Methylphenol	96	89	75-111	8	30				
4-Methylphenol	100	90	59-123	11	30				
Naphthalene	91	84	72-116	8	30				
2-Nitroaniline	87	81	67-125	6	30				
3-Nitroaniline	96	75	59-122	25	30				
4-Nitroaniline	70	58	41-109	18	30				
Nitrobenzene	97	92	57-125	5	30				
2-Nitrophenol	85	87	56-127	1	30				
4-Nitrophenol	87	81	37-129	7	30				
N-Nitroso-di-n-propylamine	90	83	60-116	8	30				
N-Nitrosodimethylamine	91	84	47-116	9	30				
N-Nitrosodiphenylamine	107	96	71-122	11	30				
Di-n-octylphthalate	99	94	56-126	5	30				
Pentachlorophenol	68	89	28-127	27	30				
Phenanthrene	104	90	65-125	14	30				
Phenol	101	91	58-126	10	30				
Pyrene	101	89	74-126	12	30				
1,2,4-Trichlorobenzene	99	93	72-115	6	30				
2,4,5-Trichlorophenol	107	98	58-129	8	30				
2,4,6-Trichlorophenol	112	103	56-134	8	30				
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	93	84	63-105	10	30				
Acenaphthylene	93	83	67-114	12	30				
Anthracene	99	87	73-115	13	30				
Benzo(a)anthracene	99	85	59-128	15	30				
Benzo(a)pyrene	98	89	58-142	10	30				
Benzo(b)fluoranthene	106	106	54-163	0	30				
Benzo(g,h,i)perylene	91	55	33-141	49*	30				
Benzo(k)fluoranthene	92	89	57-153	3	30				
Butylbenzylphthalate	134	92	57-173	25	30				
Di-n-butylphthalate	115	114	65-148	0	30				
Chrysene	97	87	67-123	11	30				
Dibenz(a,h)anthracene	101	66	22-133	41*	30				
Diethylphthalate	106	99	70-136	6	30				
Dimethylphthalate	101	91	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	102	124	39-167	16	30				
Fluoranthene	103	93	51-149	10	30				
Fluorene	99	89	66-122	11	30				
Indeno(1,2,3-cd)pyrene	99	65	21-143	41*	30				
1-Methylnaphthalene	90	80	72-123	12	30				
2-Methylnaphthalene	90	79	64-103	14	30				
Naphthalene	92	81	61-102	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	95	81	48-113	16	30				
Di-n-octylphthalate	117	116	40-192	1	30				
Phenanthrene	96	84	62-122	14	30				
Pyrene	99	86	51-131	15	30				
Batch number: 11274A34A	Sample number(s): 6423871 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868 UNSPK: 6423856								
2,4-D	75	77	17-180	2	35				
Dalapon	50	41	10-125	19	50				
2,4-DB	78	63	10-201	20	50				
Dicamba	86	84	10-190	1	50				
Dinoseb	8*	36	10-46	124*	35				
2,4-DP (Dichlorprop)	111	115	33-178	4	50				
MCPA	184	209	10-213	14	50				
MCPP (Mecoprop)	39	44	10-184	8	50				
2,4,5-T	70	47	10-156	39*	35				
2,4,5-TP	16*	42	24-141	92*	35				
Batch number: 112910026A	Sample number(s): 6423861 UNSPK: P423856								
2,4-D	78	77	17-180	1	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	88	82	10-201	7	50				
Dicamba	55	0*	10-190	200*	50				
Dinoseb	18	11	10-46	43*	35				
2,4-DP (Dichlorprop)	70	73	33-178	4	50				
MCPA	72	77	10-213	7	50				
MCPP (Mecoprop)	55	55	10-184	1	50				
2,4,5-T	34	41	10-156	19	35				
2,4,5-TP	35	55	24-141	45*	35				
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868 UNSPK: 6423856								
Aldrin	55	55	16-126	0	50				
Alpha BHC	53	50	10-129	6	50				
Beta BHC	59	53	14-147	11	50				
Gamma BHC - Lindane	53	53	10-140	0	50				
p,p-DDD	72	69	16-163	4	50				
p,p-DDE	72	63	18-161	7	50				
p,p-DDT	118	110	10-176	7	50				
Delta BHC	67	67	23-140	0	50				
Dieldrin	50	46	19-154	9	50				
Endosulfan I	41	50	16-137	19	50				
Endosulfan II	78	69	28-154	13	50				
Endosulfan Sulfate	0*	51	21-160	200*	50				
Endrin	60	57	11-149	5	50				
Endrin Aldehyde	74	68	10-148	9	35				
Endrin Ketone	57	0*	22-165	200*	50				
Heptachlor	59	56	13-126	5	50				
Heptachlor Epoxide	70	70	13-157	0	50				
Methoxychlor	64	58	32-147	10	50				
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871 UNSPK: 6423856								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	70	81	29-146	14	50				
PCB-1260	80	93	39-149	15	50				
Batch number: 112730032A	Sample number(s): 6423871 UNSPK: P419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				
Methanol	87	68	43-138	24*	20				
Batch number: 112790048A	Sample number(s): 6423871 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790036A	Sample number(s): 6423871 UNSPK: P421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112790037A	Sample number(s): 6423871 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Antimony	27*	37*	75-125	20	20	0.200	0.225	12 (1)	20
Arsenic	191*	210*	75-125	4	20	6.56	8.85	30*	20
Beryllium	112	116	75-125	3	20	0.634	0.768	19	20
Cadmium	112	131*	75-125	13	20	0.290	0.352	19 (1)	20
Chromium	168*	208*	75-125	9	20	28.9	33.9	16	20
Cobalt	110	129*	75-125	15	20	9.28	9.17	1	20
Copper	130*	167*	75-125	11	20	18.2	22.9	23*	20
Lead	121 (2)	255 (2)	75-125	16	20	20.1	23.0	14	20
Nickel	136*	179*	75-125	14	20	16.5	19.8	18	20
Silver	110	127*	75-125	15	20	0.0221 J	0.0170 J	26* (1)	20
Thallium	122	144*	75-125	12	20	0.248	0.303	20 (1)	20
Vanadium	243 (2)	285 (2)	75-125	6	20	49.9	62.8	23*	20
Zinc	145 (2)	181 (2)	75-125	5	20	53.3	64.8	20	20
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Selenium	99	110	75-125	10	20	0.244 J	0.293 J	18 (1)	20
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Molybdenum	116	134*	75-125	15	20	0.311	0.440	34* (1)	20
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Barium	202 (2)	320 (2)	75-125	10	20	90.1	107	18	20
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Aluminum	2148 (2)	2670 (2)	75-125	4	20	17,300	17,700	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	103	101	84-115	2	20	10.8	10.6	2 (1)	20
Calcium	2589 (2)	909 (2)	75-125	5	20	140,000	134,000	4	20
Iron	768 (2)	672 (2)	75-125	0	20	20,200	23,800	16	20
Lithium	101	102	82-114	0	20	17.9	17.7	1	20
Magnesium	151 (2)	293 (2)	75-125	4	20	5,900	5,920	0	20
Manganese	221 (2)	113 (2)	75-125	16	20	269	303	12	20
Phosphorus	99 (2)	107 (2)	75-125	1	20	437	445	2	20
Potassium	148*	171*	75-125	5	20	3,030	3,040	1	20
Sodium	99	99	75-125	1	20	117	108	7 (1)	20
Strontium	93	87	75-115	3	20	151	149	1	20
Tin	81	80	80-110	2	20	1.87 J	1.88 J	0 (1)	20
Zirconium	96	96	81-110	1	20	3.29 J	4.05 J	21* (1)	20
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Mercury	92	96	65-135	1	20	0.0178 J	0.0126 J	34* (1)	20
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871 UNSPK: 6423870 BKG: 6423870								
Copper	130*	117	75-125	7	20	4.86	5.10	5	20
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Titanium	313 (2)	299 (2)	75-125	2	20	805	816	1	20
Batch number: 11278102201B	Sample number(s): 6423871 UNSPK: P418463 BKG: P418463								
16a Cyanide by 9012B	93		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
3a Cr VI by EPA 7199	89		75-125			0.39 J	0.51 J	26* (1)	20
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285285202B	Sample number(s): 6423869-6423871 UNSPK: 6423870 BKG: 6423870								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
11a Anions by 300.0 - Fluoride	72*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285495201B	Sample number(s): 6423869-6423871 UNSPK: 6423869 BKG: 6423869								
11a Anions by 300.0 - Fluoride	64*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868 BKG: 6423856								
17a pH by 9045C						7.81	7.82	0	3
Batch number: 11285039402B	Sample number(s): 6423869-6423871 BKG: 6423871								
17a pH by 9045C						7.92	7.92	0	3
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871 BKG: 6423856								
28a Moisture Content by 160.3						3.3	3.3	0	20
Moisture Content by 160.3						3.3	3.3	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						3.3	3.3	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11284SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	96	103	131*	97	94	97
6423856	90	99	122	94	94	98
6423857	94	101	128	95	93	96
6423858	88	96	115	90	88	88
6423862	93	101	122	96	93	97
6423863	91	98	124	93	89	97
6423864	99	107	129	99	96	100
6423865	98	106	123	97	92	95
6423866	91	98	127	94	90	95
6423867	91	97	118	92	87	99
6423868	89	98	108	94	91	91
6423869	88	95	119	90	88	96
6423870	94	101	117	94	90	99
6423871	91	101	105	95	92	94
Blank	86	94	114	90	98	103
LCS	94	100	127	93	94	96
MS	94	101	128	95	93	96
MSD	88	96	115	90	88	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11284SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	109	92	119
6423856	100	87	98
6423857	113	89	109
6423858	104	78	94
6423862	102	87	96
6423863	93	82	103
6423864	110	87	98
6423865	126	83	91
6423866	41	32*	37*
6423867	86	75	82
6423868	100	87	95
6423869	89	77	90
6423870	98	84	92
6423871	99	85	95

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

Blank	92	81	90
LCS	100	81	92
MS	113	89	109
MSD	104	78	94
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34A

	Trifluorotoluene-F
6423871	94
Blank	96
LCS	92
MS	96
MSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279A20A

	Trifluorotoluene-F
6423872	89
Blank	87
LCS	111
LCSD	113
Limits:	63-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112810010A

	2,4-Dichlorophenylacetic acid
6423855	80
6423856	107
6423857	113
6423858	86
6423860	113
6423862	78
6423863	53
6423864	93
6423865	67
6423866	97
6423867	103
6423868	108
Blank	76
LCS	65
MS	113
MSD	86
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112810037A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

6423855	62	121*
6423856	51	89
6423857	58	71
6423858	54	61
6423860	54	57
6423861	55	58
6423862	60	64
6423863	65	83
6423864	58	69
6423865	59	91
6423866	55	60
6423867	65	73
6423868	54	70
Blank	76	106
LCS	83	111
MS	58	71
MSD	54	61
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112840021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6423855	84	81
6423856	87	91
6423857	73	71
6423858	87	96
6423860	83	93
6423861	70	88
6423862	70	63
6423863	88	95
6423864	68	71
6423865	80	89
6423866	88	91
6423867	45*	51
6423868	60	57
6423869	56	65
6423870	84	92
6423871	90	100
Blank	88	94
LCS	77	86
LCSD	87	105
MS	73	71
MSD	87	96
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112910026A

	2,4-Dichlorophenylacetic acid
6423861	67
Blank	64
LCS	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

MS 61
MSD 60

Limits: 36-156

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6423871	88
Blank	98
LCS	99
MS	87
MSD	64
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6423871	84	90
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6423871	63
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6423871	73
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 1303 Cap# 1269114 Sample# 6423355-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	**MS/MSD sample**
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								**MS/MSD sample**
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
[signature]	09/29/2011 / 1630	[signature] LL 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 4434; 8767 9858 3520	

acct# 13013 Cap# 1269114 Sample# 6423855-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X										
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X										

Relinquished by: (*Signature*) — Date/Time: 09/29/2011 / 1630

Received for Laboratory by: (*Signature*) LLI 9/30/11 0930

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8767 9857 4434; 8767 9858 3520

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269115
SDG: DX147
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423873
SL-003-SA8S-SS-0.0-0.5 Soil	6423874
SL-003-SA8S-SS-0.0-0.5MS Soil	6423875
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423876
SL-005-SA8S-SS-0.0-0.5 Soil	6423877
SL-007-SA8S-SS-0.0-0.5 Soil	6423878
SL-013-SA8S-SS-0.0-0.5 Soil	6423879
SL-014-SA8S-SS-0.0-0.5 Soil	6423880
SL-015-SA8S-SS-0.0-0.5 Soil	6423881
SL-024-SA8S-SS-0.0-0.5 Soil	6423882
DUP01-SA8S-QC-092911 Soil	6423883
SL-126-SA7-SB-4.0-5.0 Soil	6423884
SL-127-SA7-SB-4.0-5.0 Soil	6423885
SL-177-SA7-SB-3.0-4.0 Soil	6423886

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.06	1
11031	12378-PeCDD	40321-76-4	0.0599	J	0.0362	5.28	1
11031	123478-HxCDD	39227-28-6	0.0733	J	0.0329	5.28	1
11031	123678-HxCDD	57653-85-7	0.152	JB	0.0326	5.28	1
11031	123789-HxCDD	19408-74-3	0.125	JB	0.0347	5.28	1
11031	1234678-HpCDD	35822-46-9	2.77	JB	0.0590	5.28	1
11031	OCDD	3268-87-9	19.3	B	0.0762	10.6	1
11031	2378-TCDF	51207-31-9	0.179	JB	0.0436	1.06	1
11031	12378-PeCDF	57117-41-6	0.0941	JBQ	0.0250	5.28	1
11031	23478-PeCDF	57117-31-4	0.381	JB	0.0263	5.28	1
11031	123478-HxCDF	70648-26-9	0.288	JQ	0.0388	5.28	1
11031	123678-HxCDF	57117-44-9	0.133	JBQ	0.0311	5.28	1
11031	123789-HxCDF	72918-21-9	0.0547	JBQ	0.0320	5.28	1
11031	234678-HxCDF	60851-34-5	0.203	JB	0.0242	5.28	1
11031	1234678-HpCDF	67562-39-4	0.592	JB	0.0323	5.28	1
11031	1234789-HpCDF	55673-89-7	0.118	JBQ	0.0499	5.28	1
11031	OCDF	39001-02-0	1.15	JB	0.0920	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 13:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	U	0.0329	1.02	1
11031	12378-PeCDD	40321-76-4	0.0765	J	0.0313	5.09	1
11031	123478-HxCDD	39227-28-6	0.0692	JQ	0.0320	5.09	1
11031	123678-HxCDD	57653-85-7	0.165	JB	0.0345	5.09	1
11031	123789-HxCDD	19408-74-3	0.163	JBQ	0.0290	5.09	1
11031	1234678-HpCDD	35822-46-9	2.71	JB	0.0405	5.09	1
11031	OCDD	3268-87-9	18.7	B	0.0407	10.2	1
11031	2378-TCDF	51207-31-9	0.196	JB	0.0375	1.02	1
11031	12378-PeCDF	57117-41-6	0.0217	U	0.0217	5.09	1
11031	23478-PeCDF	57117-31-4	0.317	JB	0.0220	5.09	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0352	5.09	1
11031	123678-HxCDF	57117-44-9	0.113	JBQ	0.0268	5.09	1
11031	123789-HxCDF	72918-21-9	0.0252	U	0.0252	5.09	1
11031	234678-HxCDF	60851-34-5	0.150	JB	0.0209	5.09	1
11031	1234678-HpCDF	67562-39-4	0.574	JB	0.0211	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0457	JB	0.0282	5.09	1
11031	OCDF	39001-02-0	0.882	JB	0.0464	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 14:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.2	B	0.0509	1.01	1
11031	12378-PeCDD	40321-76-4	104		0.0575	5.04	1
11031	123478-HxCDD	39227-28-6	105		0.0609	5.04	1
11031	123678-HxCDD	57653-85-7	101	B	0.0607	5.04	1
11031	123789-HxCDD	19408-74-3	102	B	0.0598	5.04	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0721	5.04	1
11031	OCDD	3268-87-9	227	B	0.0818	10.1	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0568	1.01	1
11031	12378-PeCDF	57117-41-6	102	B	0.0363	5.04	1
11031	23478-PeCDF	57117-31-4	99.6	B	0.0369	5.04	1
11031	123478-HxCDF	70648-26-9	96.9		0.113	5.04	1
11031	123678-HxCDF	57117-44-9	99.3	B	0.0879	5.04	1
11031	123789-HxCDF	72918-21-9	101	B	0.0777	5.04	1
11031	234678-HxCDF	60851-34-5	101	B	0.0666	5.04	1
11031	1234678-HpCDF	67562-39-4	98.7	B	0.0736	5.04	1
11031	1234789-HpCDF	55673-89-7	101	B	0.105	5.04	1
11031	OCDF	39001-02-0	207	B	0.0905	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 18:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.9	B	0.0570	0.996	1
11031	12378-PeCDD	40321-76-4	104		0.0531	4.98	1
11031	123478-HxCDD	39227-28-6	103		0.0592	4.98	1
11031	123678-HxCDD	57653-85-7	98.8	B	0.0654	4.98	1
11031	123789-HxCDD	19408-74-3	99.7	B	0.0609	4.98	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0664	4.98	1
11031	OCDD	3268-87-9	216	B	0.0637	9.96	1
11031	2378-TCDF	51207-31-9	20.0	B	0.0551	0.996	1
11031	12378-PeCDF	57117-41-6	100	B	0.0368	4.98	1
11031	23478-PeCDF	57117-31-4	98.5	B	0.0364	4.98	1
11031	123478-HxCDF	70648-26-9	99.6		0.106	4.98	1
11031	123678-HxCDF	57117-44-9	98.5	B	0.0920	4.98	1
11031	123789-HxCDF	72918-21-9	100	B	0.0885	4.98	1
11031	234678-HxCDF	60851-34-5	100	B	0.0785	4.98	1
11031	1234678-HpCDF	67562-39-4	97.7	B	0.0576	4.98	1
11031	1234789-HpCDF	55673-89-7	99.5	B	0.0768	4.98	1
11031	OCDF	39001-02-0	201	B	0.0685	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 19:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367 U	0.0367	1.02	1
11031	12378-PeCDD	40321-76-4	0.0587 JQ	0.0286	5.09	1
11031	123478-HxCDD	39227-28-6	0.0315 J	0.0252	5.09	1
11031	123678-HxCDD	57653-85-7	0.0811 JBQ	0.0273	5.09	1
11031	123789-HxCDD	19408-74-3	0.0560 JB	0.0238	5.09	1
11031	1234678-HpCDD	35822-46-9	0.781 JB	0.0297	5.09	1
11031	OCDD	3268-87-9	5.28 JB	0.0248	10.2	1
11031	2378-TCDF	51207-31-9	0.0324 U	0.0324	1.02	1
11031	12378-PeCDF	57117-41-6	0.0389 JB	0.0198	5.09	1
11031	23478-PeCDF	57117-31-4	0.0720 JBQ	0.0189	5.09	1
11031	123478-HxCDF	70648-26-9	0.0398 JQ	0.0348	5.09	1
11031	123678-HxCDF	57117-44-9	0.0340 JB	0.0326	5.09	1
11031	123789-HxCDF	72918-21-9	0.0374 JBQ	0.0192	5.09	1
11031	234678-HxCDF	60851-34-5	0.0512 JB	0.0162	5.09	1
11031	1234678-HpCDF	67562-39-4	0.151 JB	0.0191	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0559 JB	0.0189	5.09	1
11031	OCDF	39001-02-0	0.353 JB	0.0407	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	31	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0363	U	0.0363	1.03	1
11031	12378-PeCDD	40321-76-4	0.0474	JQ	0.0270	5.14	1
11031	123478-HxCDD	39227-28-6	0.0397	JQ	0.0280	5.14	1
11031	123678-HxCDD	57653-85-7	0.119	JB	0.0270	5.14	1
11031	123789-HxCDD	19408-74-3	0.118	JBQ	0.0273	5.14	1
11031	1234678-HpCDD	35822-46-9	2.29	JB	0.0341	5.14	1
11031	OCDD	3268-87-9	30.0	B	0.0315	10.3	1
11031	2378-TCDF	51207-31-9	0.0545	JB	0.0312	1.03	1
11031	12378-PeCDF	57117-41-6	0.0178	U	0.0178	5.14	1
11031	23478-PeCDF	57117-31-4	0.0428	JBQ	0.0171	5.14	1
11031	123478-HxCDF	70648-26-9	0.0598	JQ	0.0255	5.14	1
11031	123678-HxCDF	57117-44-9	0.0674	JB	0.0227	5.14	1
11031	123789-HxCDF	72918-21-9	0.0505	JBQ	0.0178	5.14	1
11031	234678-HxCDF	60851-34-5	0.0823	JBQ	0.0153	5.14	1
11031	1234678-HpCDF	67562-39-4	0.474	JB	0.0190	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0508	JB	0.0211	5.14	1
11031	OCDF	39001-02-0	0.884	JB	0.0379	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342	U	0.0342	1.03	1
11031	12378-PeCDD	40321-76-4	0.188	J	0.0333	5.14	1
11031	123478-HxCDD	39227-28-6	0.224	J	0.0317	5.14	1
11031	123678-HxCDD	57653-85-7	0.253	JB	0.0310	5.14	1
11031	123789-HxCDD	19408-74-3	0.289	JB	0.0323	5.14	1
11031	1234678-HpCDD	35822-46-9	2.17	JB	0.0342	5.14	1
11031	OCDD	3268-87-9	14.2	B	0.0314	10.3	1
11031	2378-TCDF	51207-31-9	0.183	JB	0.0618	1.03	1
11031	12378-PeCDF	57117-41-6	0.268	JBQ	0.0288	5.14	1
11031	23478-PeCDF	57117-31-4	0.601	JB	0.0291	5.14	1
11031	123478-HxCDF	70648-26-9	0.438	J	0.0445	5.14	1
11031	123678-HxCDF	57117-44-9	0.372	JBQ	0.0382	5.14	1
11031	123789-HxCDF	72918-21-9	0.222	JBQ	0.0314	5.14	1
11031	234678-HxCDF	60851-34-5	0.311	JB	0.0265	5.14	1
11031	1234678-HpCDF	67562-39-4	0.756	JB	0.0242	5.14	1
11031	1234789-HpCDF	55673-89-7	0.211	JBQ	0.0263	5.14	1
11031	OCDF	39001-02-0	1.27	JB	0.0324	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 21:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	U	0.0317	1.04	1
11031	12378-PeCDD	40321-76-4	0.164	J	0.0295	5.20	1
11031	123478-HxCDD	39227-28-6	0.194	J	0.0411	5.20	1
11031	123678-HxCDD	57653-85-7	0.247	JB	0.0443	5.20	1
11031	123789-HxCDD	19408-74-3	0.210	JBQ	0.0377	5.20	1
11031	1234678-HpCDD	35822-46-9	6.20	B	0.0420	5.20	1
11031	OCDD	3268-87-9	64.7	B	0.0439	10.4	1
11031	2378-TCDF	51207-31-9	0.0992	JB	0.0421	1.04	1
11031	12378-PeCDF	57117-41-6	0.220	JB	0.0239	5.20	1
11031	23478-PeCDF	57117-31-4	0.409	JB	0.0245	5.20	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0344	5.20	1
11031	123678-HxCDF	57117-44-9	0.172	JB	0.0266	5.20	1
11031	123789-HxCDF	72918-21-9	0.0228	U	0.0228	5.20	1
11031	234678-HxCDF	60851-34-5	0.184	JB	0.0193	5.20	1
11031	1234678-HpCDF	67562-39-4	0.690	JB	0.0225	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0761	JBQ	0.0259	5.20	1
11031	OCDF	39001-02-0	1.33	JB	0.0312	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 22:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0310	U	0.0310	1.03	1
11031	12378-PeCDD	40321-76-4	0.0439	JB	0.0285	5.14	1
11031	123478-HxCDD	39227-28-6	0.0940	JBQ	0.0360	5.14	1
11031	123678-HxCDD	57653-85-7	0.169	JBQ	0.0345	5.14	1
11031	123789-HxCDD	19408-74-3	0.0999	JB	0.0333	5.14	1
11031	1234678-HpCDD	35822-46-9	5.08	JB	0.0435	5.14	1
11031	OCDD	3268-87-9	86.6	B	0.0477	10.3	1
11031	2378-TCDF	51207-31-9	0.0580	JQ	0.0372	1.03	1
11031	12378-PeCDF	57117-41-6	0.0687	JB	0.0184	5.14	1
11031	23478-PeCDF	57117-31-4	0.220	JBQ	0.0185	5.14	1
11031	123478-HxCDF	70648-26-9	0.189	JBQ	0.0463	5.14	1
11031	123678-HxCDF	57117-44-9	0.129	JBQ	0.0412	5.14	1
11031	123789-HxCDF	72918-21-9	0.0687	JQ	0.0240	5.14	1
11031	234678-HxCDF	60851-34-5	0.178	JB	0.0190	5.14	1
11031	1234678-HpCDF	67562-39-4	0.862	JB	0.0254	5.14	1
11031	1234789-HpCDF	55673-89-7	0.108	JB	0.0244	5.14	1
11031	OCDF	39001-02-0	0.875	JB	0.0367	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 03:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482 JQ	0.0321	1.00	1
11031	12378-PeCDD	40321-76-4	0.0493 JBQ	0.0288	5.00	1
11031	123478-HxCDD	39227-28-6	0.137 JBQ	0.0388	5.00	1
11031	123678-HxCDD	57653-85-7	0.225 JB	0.0417	5.00	1
11031	123789-HxCDD	19408-74-3	0.183 JBQ	0.0314	5.00	1
11031	1234678-HpCDD	35822-46-9	3.94 JB	0.0303	5.00	1
11031	OCDD	3268-87-9	27.7 B	0.0323	10.0	1
11031	2378-TCDF	51207-31-9	0.282 J	0.0531	1.00	1
11031	12378-PeCDF	57117-41-6	0.190 JB	0.0273	5.00	1
11031	23478-PeCDF	57117-31-4	0.0436 JBQ	0.0256	5.00	1
11031	123478-HxCDF	70648-26-9	0.179 JBQ	0.0242	5.00	1
11031	123678-HxCDF	57117-44-9	0.138 JB	0.0222	5.00	1
11031	123789-HxCDF	72918-21-9	0.0642 JQ	0.0265	5.00	1
11031	234678-HxCDF	60851-34-5	0.190 JBQ	0.0224	5.00	1
11031	1234678-HpCDF	67562-39-4	0.772 JB	0.0181	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0874 JBQ	0.0267	5.00	1
11031	OCDF	39001-02-0	1.26 JB	0.0253	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 04:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.03	1
11031	12378-PeCDD	40321-76-4	0.0846	JQ	0.0258	5.15	1
11031	123478-HxCDD	39227-28-6	0.0704	JQ	0.0271	5.15	1
11031	123678-HxCDD	57653-85-7	0.193	JB	0.0260	5.15	1
11031	123789-HxCDD	19408-74-3	0.138	JB	0.0256	5.15	1
11031	1234678-HpCDD	35822-46-9	3.04	JB	0.0303	5.15	1
11031	OCDD	3268-87-9	27.5	B	0.0265	10.3	1
11031	2378-TCDF	51207-31-9	0.265	JB	0.0349	1.03	1
11031	12378-PeCDF	57117-41-6	0.0763	JB	0.0215	5.15	1
11031	23478-PeCDF	57117-31-4	0.233	JB	0.0220	5.15	1
11031	123478-HxCDF	70648-26-9	0.361	J	0.0281	5.15	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0233	5.15	1
11031	123789-HxCDF	72918-21-9	0.0609	JB	0.0205	5.15	1
11031	234678-HxCDF	60851-34-5	0.149	JB	0.0186	5.15	1
11031	1234678-HpCDF	67562-39-4	0.615	JBQ	0.0183	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0624	JBQ	0.0245	5.15	1
11031	OCDF	39001-02-0	1.00	JB	0.0284	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA8S-QC-092911 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0347	U	0.0347	1.07	1
11031	12378-PeCDD	40321-76-4	0.0266	U	0.0266	5.35	1
11031	123478-HxCDD	39227-28-6	0.0226	U	0.0226	5.35	1
11031	123678-HxCDD	57653-85-7	0.124	JB	0.0231	5.35	1
11031	123789-HxCDD	19408-74-3	0.234	JB	0.0209	5.35	1
11031	1234678-HpCDD	35822-46-9	0.211	JBQ	0.0217	5.35	1
11031	OCDD	3268-87-9	0.577	JB	0.0193	10.7	1
11031	2378-TCDF	51207-31-9	0.0249	U	0.0249	1.07	1
11031	12378-PeCDF	57117-41-6	0.0429	JB	0.0155	5.35	1
11031	23478-PeCDF	57117-31-4	0.0412	JB	0.0145	5.35	1
11031	123478-HxCDF	70648-26-9	0.0232	U	0.0232	5.35	1
11031	123678-HxCDF	57117-44-9	0.0200	U	0.0200	5.35	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0136	5.35	1
11031	234678-HxCDF	60851-34-5	0.0159	JB	0.0120	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0901	JBQ	0.0170	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0193	JB	0.0156	5.35	1
11031	OCDF	39001-02-0	0.124	JBQ	0.0278	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 02:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177 U	0.0177	1.02	1
11031	12378-PeCDD	40321-76-4	0.0360 J	0.0167	5.11	1
11031	123478-HxCDD	39227-28-6	0.0219 J	0.0146	5.11	1
11031	123678-HxCDD	57653-85-7	0.0346 JB	0.0158	5.11	1
11031	123789-HxCDD	19408-74-3	0.0636 JBQ	0.0146	5.11	1
11031	1234678-HpCDD	35822-46-9	0.284 JB	0.0175	5.11	1
11031	OCDD	3268-87-9	0.862 JB	0.0149	10.2	1
11031	2378-TCDF	51207-31-9	0.0162 U	0.0162	1.02	1
11031	12378-PeCDF	57117-41-6	0.0254 JBQ	0.00973	5.11	1
11031	23478-PeCDF	57117-31-4	0.0610 JBQ	0.00952	5.11	1
11031	123478-HxCDF	70648-26-9	0.0196 U	0.0196	5.11	1
11031	123678-HxCDF	57117-44-9	0.0482 JBQ	0.0180	5.11	1
11031	123789-HxCDF	72918-21-9	0.0500 JBQ	0.0119	5.11	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.0104	5.11	1
11031	1234678-HpCDF	67562-39-4	0.163 JB	0.0112	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0235 JBQ	0.0114	5.11	1
11031	OCDF	39001-02-0	0.230 JB	0.0225	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/18/2011 02:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0319 JQ	0.0314	1.06	1
11031	12378-PeCDD	40321-76-4	0.0346 JBQ	0.0234	5.28	1
11031	123478-HxCDD	39227-28-6	0.0217 U	0.0217	5.28	1
11031	123678-HxCDD	57653-85-7	0.0551 JBQ	0.0204	5.28	1
11031	123789-HxCDD	19408-74-3	0.0930 JBQ	0.0202	5.28	1
11031	1234678-HpCDD	35822-46-9	0.339 JB	0.0214	5.28	1
11031	OCDD	3268-87-9	1.15 JB	0.0208	10.6	1
11031	2378-TCDF	51207-31-9	0.0344 JQ	0.0252	1.06	1
11031	12378-PeCDF	57117-41-6	0.0291 JBQ	0.0138	5.28	1
11031	23478-PeCDF	57117-31-4	0.0135 U	0.0135	5.28	1
11031	123478-HxCDF	70648-26-9	0.0413 JBQ	0.0161	5.28	1
11031	123678-HxCDF	57117-44-9	0.0191 JBQ	0.0139	5.28	1
11031	123789-HxCDF	72918-21-9	0.0556 JQ	0.0176	5.28	1
11031	234678-HxCDF	60851-34-5	0.0511 JBQ	0.0147	5.28	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0113	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0411 JBQ	0.0186	5.28	1
11031	OCDF	39001-02-0	0.179 JB	0.0316	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 05:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885								
2378-TCDD	0.0626 J	0.0378	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0319 U	0.0319	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0204 U	0.0204	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0344 J	0.0212	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0271 J	0.0204	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.202 J	0.0320	5.00	ng/kg	99		70-140		
OCDD	0.380 J	0.0230	10.0	ng/kg	97		78-144		
2378-TCDF	0.0391 J	0.0342	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0281 J	0.0158	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0553 J	0.0164	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0239 U	0.0239	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0263 J	0.0195	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0293 J	0.0175	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0606 J	0.0151	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0913 J	0.0121	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0260 J	0.0168	5.00	ng/kg	98		78-138		
OCDF	0.189 J	0.0416	10.0	ng/kg	99		63-170		
Batch number: 11292003	Sample number(s): 6423881-6423882,6423886								
2378-TCDD	0.0344 U	0.0344	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0488 J	0.0288	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0310 J	0.0190	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0294 J	0.0192	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0415 J	0.0191	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.305 J	0.0224	5.00	ng/kg	95		70-140		
OCDD	0.653 J	0.0196	10.0	ng/kg	93		78-144		
2378-TCDF	0.0262 U	0.0262	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0392 J	0.0149	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0693 J	0.0140	5.00	ng/kg	92		68-160		
123478-HxCDF	0.114 J	0.0232	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0822 J	0.0204	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0174 U	0.0174	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0874 J	0.0146	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.370 J	0.0160	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0805 J	0.0189	5.00	ng/kg	93		78-138		
OCDF	0.256 J	0.0304	10.0	ng/kg	94		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886					BKG: P423856			
Moisture Content by 160.3						3.3	3.3	0	20
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885 UNSPK: 6423874								
2378-TCDD	105	105	67-158	1	25				
12378-PeCDD	103	104	70-142	1	25				
123478-HxCDD	104	103	70-164	2	25				
123678-HxCDD	100	99	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	102	100	70-140	3	25				
OCDD	103	99	78-144	5	25				
2378-TCDF	102	99	75-158	4	25				
12378-PeCDF	101	101	80-134	2	25				
23478-PeCDF	98	99	68-160	1	25				
123478-HxCDF	96	100	72-134	3	25				
123678-HxCDF	98	99	84-130	1	25				
123789-HxCDF	100	100	78-130	1	25				
234678-HxCDF	100	100	70-156	1	25				
1234678-HpCDF	97	97	82-122	1	25				
1234789-HpCDF	100	100	78-138	1	25				
OCDF	102	100	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11286001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423873	74	63	40	50	63	57
6423874	72	63	41	51	64	62
6423875	74	67	40	52	68	71
6423876	72	66	49	56	66	67
6423877	60	58	29	31	58	60
6423878	68	65	41	45	65	67
6423879	75	69	41	50	70	69
6423880	77	71	40	49	66	68
6423883	78	70	47	56	70	74
6423884	67	66	36	41	65	67
6423885	67	63	35	40	65	68
Blank	82	75	48	60	76	77
MS	74	67	40	52	68	71
MSD	72	66	49	56	66	67
OPR	69	59	40	53	63	56

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423873	69	56	55	74	78	81
6423874	67	62	62	71	80	77
6423875	72	64	66	76	79	83
6423876	71	64	65	71	80	81
6423877	45	57	59	64	71	70
6423878	61	67	73	73	78	83
6423879	63	69	77	76	83	90
6423880	61	65	64	78	81	78
6423883	73	70	72	78	85	91
6423884	53	66	69	72	76	76
6423885	53	63	64	69	74	74
Blank	86	74	75	85	92	93
MS	72	64	66	76	79	83
MSD	71	64	65	71	80	81
OPR	78	55	55	73	82	84

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6423873	79	82	82	66	75	
6423874	83	84	85	66	71	
6423875	83	87	92	69	78	
6423876	83	85	85	70	72	
6423877	73	76	76	56	63	
6423878	78	85	92	63	71	
6423879	84	88	95	70	77	
6423880	86	90	85	73	79	
6423883	90	91	92	74	80	
6423884	82	85	86	65	71	
6423885	76	80	82	65	70	
Blank	93	100	105	74	84	
MS	83	87	92	69	78	
MSD	83	85	85	70	72	
OPR	82	87	90	59	70	

Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11292003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423881	73	67	32	36	71	68
6423882	71	67	66	73	70	70
6423886	64	62	63	71	67	63
Blank	76	75	52	58	82	79
OPR	69	67	53	59	70	68

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423881	54	69	73	72	79	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

6423882	85	70	73	68	70	66
6423886	90	66	70	68	77	84
Blank	81	85	90	80	89	93
OPR	80	70	73	74	81	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6423881	81	87	91	71	74
6423882	82	86	88	68	71
6423886	82	86	92	60	68
Blank	93	102	109	71	77
OPR	83	89	92	64	72
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1269115 Sample# 6423873-86

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD sample
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								MS/MSD sample
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Brian Thom	09/29/2011 / 1630	Mary Hahn UPS 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8767 9857 4434; 8767 9858 3520	

acct#13013 Grp#1269115 Sample#6423373-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X										
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/29/2011 / 1630	LLJ 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 4434; 8767 9858 3520	

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269322
SDG: DX145
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA8S-SS-0.0-0.5 Soil	6426134
SL-009-SA8S-SS-0.0-0.5 Soil	6426135
SL-010-SA8S-SS-0.0-0.5 Soil	6426136
SL-011-SA8S-SS-0.0-0.5 Soil	6426137
SL-012-SA8S-SS-0.0-0.5 Soil	6426138
SL-016-SA8S-SS-0.0-0.5 Soil	6426139
SL-017-SA8S-SS-0.0-0.5 Soil	6426140
SL-018-SA8S-SS-0.0-0.5 Soil	6426141
SL-019-SA8S-SS-0.0-0.5 Soil	6426142
SL-020-SA8S-SS-0.0-0.5 Soil	6426143
SL-021-SA8S-SS-0.0-0.5 Soil	6426144

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	JQ	0.0271	1.07	1
11031	12378-PeCDD	40321-76-4	0.118	J	0.0297	5.34	1
11031	123478-HxCDD	39227-28-6	0.148	J	0.0353	5.34	1
11031	123678-HxCDD	57653-85-7	0.304	JB	0.0348	5.34	1
11031	123789-HxCDD	19408-74-3	0.269	J	0.0364	5.34	1
11031	1234678-HpCDD	35822-46-9	4.59	JB	0.0311	5.34	1
11031	OCDD	3268-87-9	32.0	B	0.0288	10.7	1
11031	2378-TCDF	51207-31-9	0.658	J	0.0803	1.07	1
11031	12378-PeCDF	57117-41-6	0.222	JB	0.0443	5.34	1
11031	23478-PeCDF	57117-31-4	1.64	JB	0.0444	5.34	1
11031	123478-HxCDF	70648-26-9	0.474	JB	0.0314	5.34	1
11031	123678-HxCDF	57117-44-9	0.285	JB	0.0274	5.34	1
11031	123789-HxCDF	72918-21-9	0.0528	JBQ	0.0316	5.34	1
11031	234678-HxCDF	60851-34-5	0.394	JB	0.0272	5.34	1
11031	1234678-HpCDF	67562-39-4	1.32	JB	0.0168	5.34	1
11031	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0242	5.34	1
11031	OCDF	39001-02-0	1.84	JB	0.0247	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426134
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4510 SDG#: DX145-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 12:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0281	U	0.0281	1.04	1
11031	12378-PeCDD	40321-76-4	0.0440	JQ	0.0234	5.21	1
11031	123478-HxCDD	39227-28-6	0.0738	J	0.0317	5.21	1
11031	123678-HxCDD	57653-85-7	0.137	JB	0.0316	5.21	1
11031	123789-HxCDD	19408-74-3	0.164	J	0.0508	5.21	1
11031	1234678-HpCDD	35822-46-9	2.62	JB	0.0245	5.21	1
11031	OCDD	3268-87-9	18.0	B	0.0306	10.4	1
11031	2378-TCDF	51207-31-9	0.173	J	0.0493	1.04	1
11031	12378-PeCDF	57117-41-6	0.0713	JB	0.0250	5.21	1
11031	23478-PeCDF	57117-31-4	0.403	JBQ	0.0249	5.21	1
11031	123478-HxCDF	70648-26-9	0.100	JB	0.0199	5.21	1
11031	123678-HxCDF	57117-44-9	0.0820	JBQ	0.0181	5.21	1
11031	123789-HxCDF	72918-21-9	0.0441	JBQ	0.0233	5.21	1
11031	234678-HxCDF	60851-34-5	0.120	JBQ	0.0192	5.21	1
11031	1234678-HpCDF	67562-39-4	0.591	JB	0.0200	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0552	JBQ	0.0335	5.21	1
11031	OCDF	39001-02-0	0.948	JB	0.0284	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426135
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4511 SDG#: DX145-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 13:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0495	JQ	0.0373	1.04	1
11031	12378-PeCDD	40321-76-4	0.187	JQ	0.0334	5.21	1
11031	123478-HxCDD	39227-28-6	0.115	JQ	0.0487	5.21	1
11031	123678-HxCDD	57653-85-7	0.430	JBQ	0.0478	5.21	1
11031	123789-HxCDD	19408-74-3	0.296	J	0.0461	5.21	1
11031	1234678-HpCDD	35822-46-9	5.41	B	0.0412	5.21	1
11031	OCDD	3268-87-9	35.5	B	0.0350	10.4	1
11031	2378-TCDF	51207-31-9	0.851	JQ	0.0759	1.04	1
11031	12378-PeCDF	57117-41-6	0.271	JBQ	0.0370	5.21	1
11031	23478-PeCDF	57117-31-4	1.10	JB	0.0377	5.21	1
11031	123478-HxCDF	70648-26-9	0.449	JB	0.0459	5.21	1
11031	123678-HxCDF	57117-44-9	0.281	JB	0.0354	5.21	1
11031	123789-HxCDF	72918-21-9	0.134	JB	0.0451	5.21	1
11031	234678-HxCDF	60851-34-5	0.438	JB	0.0370	5.21	1
11031	1234678-HpCDF	67562-39-4	1.31	JB	0.0204	5.21	1
11031	1234789-HpCDF	55673-89-7	0.128	JB	0.0334	5.21	1
11031	OCDF	39001-02-0	1.93	JB	0.0441	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426136
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4512 SDG#: DX145-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 04:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	U	0.0390	1.06	1
11031	12378-PeCDD	40321-76-4	0.124	JQ	0.0356	5.29	1
11031	123478-HxCDD	39227-28-6	0.109	J	0.0460	5.29	1
11031	123678-HxCDD	57653-85-7	0.320	JB	0.0490	5.29	1
11031	123789-HxCDD	19408-74-3	0.268	J	0.0446	5.29	1
11031	1234678-HpCDD	35822-46-9	5.79	B	0.0390	5.29	1
11031	OCDD	3268-87-9	43.9	B	0.0349	10.6	1
11031	2378-TCDF	51207-31-9	0.451	J	0.0709	1.06	1
11031	12378-PeCDF	57117-41-6	0.167	JBQ	0.0389	5.29	1
11031	23478-PeCDF	57117-31-4	0.191	JBQ	0.0367	5.29	1
11031	123478-HxCDF	70648-26-9	0.276	JBQ	0.0357	5.29	1
11031	123678-HxCDF	57117-44-9	0.163	JBQ	0.0315	5.29	1
11031	123789-HxCDF	72918-21-9	0.0554	JBQ	0.0381	5.29	1
11031	234678-HxCDF	60851-34-5	0.300	JB	0.0343	5.29	1
11031	1234678-HpCDF	67562-39-4	1.21	JB	0.0220	5.29	1
11031	1234789-HpCDF	55673-89-7	0.120	JBQ	0.0324	5.29	1
11031	OCDF	39001-02-0	1.89	JB	0.0353	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426137
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4513 SDG#: DX145-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 05:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332	U	0.0332	1.05	1
11031	12378-PeCDD	40321-76-4	0.0769	JQ	0.0306	5.27	1
11031	123478-HxCDD	39227-28-6	0.141	JQ	0.0320	5.27	1
11031	123678-HxCDD	57653-85-7	0.204	JBQ	0.0337	5.27	1
11031	123789-HxCDD	19408-74-3	0.202	JQ	0.0496	5.27	1
11031	1234678-HpCDD	35822-46-9	3.22	JB	0.0323	5.27	1
11031	OCDD	3268-87-9	26.4	B	0.0276	10.5	1
11031	2378-TCDF	51207-31-9	0.195	JQ	0.0454	1.05	1
11031	12378-PeCDF	57117-41-6	0.144	JBQ	0.0273	5.27	1
11031	23478-PeCDF	57117-31-4	0.205	JBQ	0.0268	5.27	1
11031	123478-HxCDF	70648-26-9	0.246	JBQ	0.0303	5.27	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0267	5.27	1
11031	123789-HxCDF	72918-21-9	0.0897	JBQ	0.0343	5.27	1
11031	234678-HxCDF	60851-34-5	0.235	JB	0.0285	5.27	1
11031	1234678-HpCDF	67562-39-4	0.803	JB	0.0173	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0900	JBQ	0.0308	5.27	1
11031	OCDF	39001-02-0	1.62	JB	0.0334	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426138
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4514 SDG#: DX145-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 06:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	JQ	0.0452	1.03	1
11031	12378-PeCDD	40321-76-4	0.140	J	0.0444	5.14	1
11031	123478-HxCDD	39227-28-6	0.0844	J	0.0443	5.14	1
11031	123678-HxCDD	57653-85-7	0.267	JBQ	0.0450	5.14	1
11031	123789-HxCDD	19408-74-3	0.350	JQ	0.0690	5.14	1
11031	1234678-HpCDD	35822-46-9	3.04	JB	0.0459	5.14	1
11031	OCDD	3268-87-9	21.4	B	0.0413	10.3	1
11031	2378-TCDF	51207-31-9	0.498	JQ	0.0823	1.03	1
11031	12378-PeCDF	57117-41-6	0.590	JB	0.0447	5.14	1
11031	23478-PeCDF	57117-31-4	0.640	JB	0.0474	5.14	1
11031	123478-HxCDF	70648-26-9	0.417	JB	0.0431	5.14	1
11031	123678-HxCDF	57117-44-9	0.208	JB	0.0387	5.14	1
11031	123789-HxCDF	72918-21-9	0.114	JBQ	0.0507	5.14	1
11031	234678-HxCDF	60851-34-5	0.223	JB	0.0411	5.14	1
11031	1234678-HpCDF	67562-39-4	0.792	JB	0.0293	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0855	JBQ	0.0515	5.14	1
11031	OCDF	39001-02-0	1.31	JB	0.0545	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426139
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4515 SDG#: DX145-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	JQ	0.0357	1.04	1
11031	12378-PeCDD	40321-76-4	0.139	JQ	0.0314	5.22	1
11031	123478-HxCDD	39227-28-6	0.123	J	0.0367	5.22	1
11031	123678-HxCDD	57653-85-7	0.345	JBQ	0.0394	5.22	1
11031	123789-HxCDD	19408-74-3	0.343	JQ	0.0609	5.22	1
11031	1234678-HpCDD	35822-46-9	4.94	JB	0.0352	5.22	1
11031	OCDD	3268-87-9	34.3	B	0.0350	10.4	1
11031	2378-TCDF	51207-31-9	0.699	J	0.0776	1.04	1
11031	12378-PeCDF	57117-41-6	0.326	JB	0.0412	5.22	1
11031	23478-PeCDF	57117-31-4	0.350	JBQ	0.0418	5.22	1
11031	123478-HxCDF	70648-26-9	0.488	JBQ	0.0389	5.22	1
11031	123678-HxCDF	57117-44-9	0.316	JBQ	0.0311	5.22	1
11031	123789-HxCDF	72918-21-9	0.113	JBQ	0.0393	5.22	1
11031	234678-HxCDF	60851-34-5	0.450	JB	0.0314	5.22	1
11031	1234678-HpCDF	67562-39-4	1.12	JB	0.0206	5.22	1
11031	1234789-HpCDF	55673-89-7	0.144	JBQ	0.0395	5.22	1
11031	OCDF	39001-02-0	2.14	JB	0.0375	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426140
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4516 SDG#: DX145-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0471	U	0.0471	1.02	1
11031	12378-PeCDD	40321-76-4	0.0931	J	0.0668	5.09	1
11031	123478-HxCDD	39227-28-6	0.102	J	0.0400	5.09	1
11031	123678-HxCDD	57653-85-7	0.274	JB	0.0423	5.09	1
11031	123789-HxCDD	19408-74-3	0.278	JQ	0.0619	5.09	1
11031	1234678-HpCDD	35822-46-9	4.00	JB	0.0330	5.09	1
11031	OCDD	3268-87-9	36.1	B	0.0308	10.2	1
11650	2378-TCDF-Conf	51207-31-9	9.38	C	0.112	1.02	1
11031	12378-PeCDF	57117-41-6	8.38	B	0.110	5.09	1
11031	23478-PeCDF	57117-31-4	5.72	B	0.122	5.09	1
11031	123478-HxCDF	70648-26-9	6.21	B	0.0760	5.09	1
11031	123678-HxCDF	57117-44-9	1.61	JB	0.0614	5.09	1
11031	123789-HxCDF	72918-21-9	0.718	JB	0.0889	5.09	1
11031	234678-HxCDF	60851-34-5	1.40	JBQ	0.0674	5.09	1
11031	1234678-HpCDF	67562-39-4	1.50	JB	0.0214	5.09	1
11031	1234789-HpCDF	55673-89-7	0.617	JBQ	0.0449	5.09	1
11031	OCDF	39001-02-0	2.24	JB	0.0482	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	61	24 - 169
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426141
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4517 SDG#: DX145-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 09:23	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11280002	10/17/2011 18:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0258 U	0.0258	1.02	1
11031	12378-PeCDD	40321-76-4	0.0518 JQ	0.0242	5.08	1
11031	123478-HxCDD	39227-28-6	0.0545 JQ	0.0270	5.08	1
11031	123678-HxCDD	57653-85-7	0.128 JBQ	0.0279	5.08	1
11031	123789-HxCDD	19408-74-3	0.0989 JQ	0.0249	5.08	1
11031	1234678-HpCDD	35822-46-9	1.64 JB	0.0254	5.08	1
11031	OCDD	3268-87-9	9.43 JB	0.0237	10.2	1
11031	2378-TCDF	51207-31-9	0.0445 U	0.0445	1.02	1
11031	12378-PeCDF	57117-41-6	0.0680 JBQ	0.0230	5.08	1
11031	23478-PeCDF	57117-31-4	0.361 JB	0.0244	5.08	1
11031	123478-HxCDF	70648-26-9	0.116 JBQ	0.0195	5.08	1
11031	123678-HxCDF	57117-44-9	0.0971 JBQ	0.0170	5.08	1
11031	123789-HxCDF	72918-21-9	0.0259 JBQ	0.0226	5.08	1
11031	234678-HxCDF	60851-34-5	0.139 JB	0.0186	5.08	1
11031	1234678-HpCDF	67562-39-4	0.545 JB	0.0156	5.08	1
11031	1234789-HpCDF	55673-89-7	0.0534 JBQ	0.0293	5.08	1
11031	OCDF	39001-02-0	1.03 JB	0.0321	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426142
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4518 SDG#: DX145-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 10:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0303	U	0.0303	1.06	1
11031	12378-PeCDD	40321-76-4	0.0673	J	0.0285	5.28	1
11031	123478-HxCDD	39227-28-6	0.0740	JQ	0.0350	5.28	1
11031	123678-HxCDD	57653-85-7	0.208	JB	0.0377	5.28	1
11031	123789-HxCDD	19408-74-3	0.141	J	0.0326	5.28	1
11031	1234678-HpCDD	35822-46-9	3.16	JB	0.0340	5.28	1
11031	OCDD	3268-87-9	18.9	B	0.0209	10.6	1
11031	2378-TCDF	51207-31-9	0.344	J	0.0484	1.06	1
11031	12378-PeCDF	57117-41-6	0.0976	JBQ	0.0265	5.28	1
11031	23478-PeCDF	57117-31-4	0.239	JBQ	0.0275	5.28	1
11031	123478-HxCDF	70648-26-9	0.256	JB	0.0309	5.28	1
11031	123678-HxCDF	57117-44-9	0.169	JB	0.0255	5.28	1
11031	123789-HxCDF	72918-21-9	0.0602	JBQ	0.0341	5.28	1
11031	234678-HxCDF	60851-34-5	0.290	JB	0.0275	5.28	1
11031	1234678-HpCDF	67562-39-4	0.796	JB	0.0157	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0460	JBQ	0.0270	5.28	1
11031	OCDF	39001-02-0	1.32	JBQ	0.0407	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426143
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4519 SDG#: DX145-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 11:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0343	JQ	0.0320	1.06	1
11031	12378-PeCDD	40321-76-4	0.0549	JQ	0.0301	5.28	1
11031	123478-HxCDD	39227-28-6	0.0810	J	0.0399	5.28	1
11031	123678-HxCDD	57653-85-7	0.255	JB	0.0422	5.28	1
11031	123789-HxCDD	19408-74-3	0.257	JQ	0.0511	5.28	1
11031	1234678-HpCDD	35822-46-9	4.66	JB	0.0374	5.28	1
11031	OCDD	3268-87-9	37.9	B	0.0315	10.6	1
11031	2378-TCDF	51207-31-9	0.219	J	0.0519	1.06	1
11031	12378-PeCDF	57117-41-6	0.0758	JBQ	0.0266	5.28	1
11031	23478-PeCDF	57117-31-4	0.0837	JB	0.0263	5.28	1
11031	123478-HxCDF	70648-26-9	0.205	JBQ	0.0263	5.28	1
11031	123678-HxCDF	57117-44-9	0.109	JBQ	0.0227	5.28	1
11031	123789-HxCDF	72918-21-9	0.0309	JB	0.0260	5.28	1
11031	234678-HxCDF	60851-34-5	0.146	JBQ	0.0218	5.28	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0184	5.28	1
11031	1234789-HpCDF	55673-89-7	0.115	JBQ	0.0273	5.28	1
11031	OCDF	39001-02-0	2.83	JB	0.0368	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426144
LLI Group # 1269322
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 19:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4520 SDG#: DX145-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/13/2011 12:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285162401A	Sample number(s): 6426134-6426142								
Moisture Content by 160.3					102		80-120		
Batch number: 11285162401B	Sample number(s): 6426143-6426144								
Moisture Content by 160.3					102		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11280002	Sample number(s): 6426134-6426144								
2378-TCDD	0.0413 U	0.0413	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0372 U	0.0372	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0238 U	0.0238	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0498 J	0.0235	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0242 U	0.0242	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.308 J	0.0298	5.00	ng/kg	98		70-140		
OCDD	0.625 J	0.0211	10.0	ng/kg	98		78-144		
2378-TCDF	0.0379 U	0.0379	1.00	ng/kg	104		75-158		
2378-TCDF-Conf	0.0480 U	0.0480	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0197 J	0.0189	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0656 J	0.0189	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0739 J	0.0214	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0577 J	0.0185	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0378 J	0.0238	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0899 J	0.0202	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.210 J	0.0107	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0464 J	0.0203	5.00	ng/kg	99		78-138		
OCDF	0.226 J	0.0378	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401A	Sample number(s): 6426134-6426142					BKG: P426118			
Moisture Content by 160.3						2.2	2.2	0 (1)	20
Batch number: 11285162401B	Sample number(s): 6426143-6426144					BKG: P426127			
Moisture Content by 160.3						6.6	5.9	11	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11280002	Sample number(s): 6426134-6426144 UNSPK: P421344								
2378-TCDD	99	102	67-158	3	25				
12378-PeCDD	101	101	70-142	0	25				
123478-HxCDD	101	100	70-164	1	25				
123678-HxCDD	96	96	76-134	0	25				
123789-HxCDD	98	99	64-162	1	25				
1234678-HpCDD	119	106	70-140	11	25				
OCDD	225*	142	78-144	35*	25				
2378-TCDF	96	95	75-158	0	25				
2378-TCDF-Conf	96	95	75-158	0	25				
12378-PeCDF	99	98	80-134	0	25				
23478-PeCDF	96	97	68-160	1	25				
123478-HxCDF	98	97	72-134	0	25				
123678-HxCDF	98	96	84-130	2	25				
123789-HxCDF	98	94	78-130	4	25				
234678-HxCDF	98	98	70-156	0	25				
1234678-HpCDF	98	96	82-122	2	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	101	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6426134	76	69	60	68	69	69
6426135	74	64	63	70	63	63
6426136	78	66	57	69	65	64
6426137	74	65	61	67	63	64
6426138	76	67	64	72	65	65
6426139	78	67	66	75	69	67
6426140	78	69	54	67	67	63
6426141	72	62	59	70	60	56
6426142	75	65	62	72	66	64
6426143	74	64	59	70	63	60
6426144	74	66	57	65	65	65
Blank	77	71	67	78	73	75
MS	74	65	64	72	67	64
MSD	75	68	69	78	71	69
OPR	67	62	58	71	64	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6426134	86	69	71	74	84	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269322
Reported: 10/21/11 at 07:51 PM

Surrogate Quality Control

6426135	84	61	61	71	76	76
6426136	88	60	62	75	80	82
6426137	78	63	64	70	74	74
6426138	88	64	63	74	78	77
6426139	87	64	59	71	80	81
6426140	92	60	58	76	83	80
6426141	95	54	53	70	78	75
6426142	96	61	61	73	80	80
6426143	88	59	59	72	78	74
6426144	79	64	62	71	77	74
Blank	113	76	77	81	86	91
MS	91	64	69	71	83	88
MSD	97	72	76	74	80	86
OPR	103	63	66	72	84	88
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6426134	84	88	93	73	76	
6426135	48	85	85	71	72	
6426136	81	85	89	70	75	
6426137	79	84	82	69	70	
6426138	56	87	85	74	76	
6426139	57	87	82	75	74	
6426140	48	92	92	74	79	
6426141	48	86	89		75	61
6426142	86	88	90	71	75	
6426143	82	86	87	70	74	
6426144	60	85	83	72	74	
Blank	89	104	115	70	79	66
MS	82	85	93	70	73	70
MSD	82	91	101	73	76	73
OPR	88	94	106	60	70	60
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1269322 sample# 6426134-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The surface code SS was added to the samples listed above. NLM 10/4/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269323
SDG: DX146
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA8S-SS-0.0-0.5 Soil	6426145
SL-023-SA8S-SS-0.0-0.5 Soil	6426146
SL-084-SA7-SB-0.0-1.0 Soil	6426147
SL-113-SA7-SB-0.0-1.0 Soil	6426148
SL-115-SA7-SB-0.5-1.5 Soil	6426149
SL-132-SA7-SB-4.0-5.0 Soil	6426150
SL-132-SA7-SB-8.5-9.5 Soil	6426151
SL-180-SA7-SB-2.0-3.0 Soil	6426152

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0264	U	0.0264	1.05	1
11031	12378-PeCDD	40321-76-4	0.112	JB	0.0309	5.26	1
11031	123478-HxCDD	39227-28-6	0.0991	J	0.0297	5.26	1
11031	123678-HxCDD	57653-85-7	0.182	JQ	0.0327	5.26	1
11031	123789-HxCDD	19408-74-3	0.153	J	0.0283	5.26	1
11031	1234678-HpCDD	35822-46-9	3.60	JB	0.0328	5.26	1
11031	OCDD	3268-87-9	25.7	B	0.0310	10.5	1
11031	2378-TCDF	51207-31-9	0.128	JQ	0.0559	1.05	1
11031	12378-PeCDF	57117-41-6	0.0992	JBQ	0.0286	5.26	1
11031	23478-PeCDF	57117-31-4	0.165	JB	0.0276	5.26	1
11031	123478-HxCDF	70648-26-9	0.126	JBQ	0.0243	5.26	1
11031	123678-HxCDF	57117-44-9	0.102	JB	0.0223	5.26	1
11031	123789-HxCDF	72918-21-9	0.0240	U	0.0240	5.26	1
11031	234678-HxCDF	60851-34-5	0.130	JBQ	0.0220	5.26	1
11031	1234678-HpCDF	67562-39-4	0.777	JB	0.0181	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0858	JB	0.0243	5.26	1
11031	OCDF	39001-02-0	1.23	JB	0.0256	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 08:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	JQ	0.0403	1.05	1
11031	12378-PeCDD	40321-76-4	0.0967	JB	0.0377	5.25	1
11031	123478-HxCDD	39227-28-6	0.128	JQ	0.0384	5.25	1
11031	123678-HxCDD	57653-85-7	0.310	J	0.0411	5.25	1
11031	123789-HxCDD	19408-74-3	0.333	JQ	0.0666	5.25	1
11031	1234678-HpCDD	35822-46-9	5.75	B	0.0488	5.25	1
11031	OCDD	3268-87-9	40.2	B	0.0346	10.5	1
11031	2378-TCDF	51207-31-9	0.474	J	0.0693	1.05	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0368	5.25	1
11031	23478-PeCDF	57117-31-4	0.0340	U	0.0340	5.25	1
11031	123478-HxCDF	70648-26-9	0.186	JBQ	0.0295	5.25	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0278	5.25	1
11031	123789-HxCDF	72918-21-9	0.0383	JBQ	0.0314	5.25	1
11031	234678-HxCDF	60851-34-5	0.183	JBQ	0.0287	5.25	1
11031	1234678-HpCDF	67562-39-4	1.01	JB	0.0312	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0811	JBQ	0.0387	5.25	1
11031	OCDF	39001-02-0	1.63	JB	0.0310	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 09:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	J	0.0340	1.02	1
11031	12378-PeCDD	40321-76-4	0.0447	JB	0.0271	5.09	1
11031	123478-HxCDD	39227-28-6	0.0473	J	0.0235	5.09	1
11031	123678-HxCDD	57653-85-7	0.0561	JQ	0.0265	5.09	1
11031	123789-HxCDD	19408-74-3	0.0453	JQ	0.0407	5.09	1
11031	1234678-HpCDD	35822-46-9	0.374	JB	0.0230	5.09	1
11031	OCDD	3268-87-9	2.44	JB	0.0205	10.2	1
11031	2378-TCDF	51207-31-9	0.0243	U	0.0243	1.02	1
11031	12378-PeCDF	57117-41-6	0.0527	JB	0.0135	5.09	1
11031	23478-PeCDF	57117-31-4	0.106	JBQ	0.0138	5.09	1
11031	123478-HxCDF	70648-26-9	0.0709	JBQ	0.0205	5.09	1
11031	123678-HxCDF	57117-44-9	0.0683	JBQ	0.0168	5.09	1
11031	123789-HxCDF	72918-21-9	0.0466	JBQ	0.0243	5.09	1
11031	234678-HxCDF	60851-34-5	0.0603	JBQ	0.0127	5.09	1
11031	1234678-HpCDF	67562-39-4	0.144	JBQ	0.0189	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0268	JBQ	0.0251	5.09	1
11031	OCDF	39001-02-0	0.212	JB	0.0345	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 10:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0643	JQ	0.0266	1.11	1
11031	12378-PeCDD	40321-76-4	0.155	JB	0.0249	5.53	1
11031	123478-HxCDD	39227-28-6	0.0587	J	0.0240	5.53	1
11031	123678-HxCDD	57653-85-7	0.487	J	0.0241	5.53	1
11031	123789-HxCDD	19408-74-3	0.643	J	0.0234	5.53	1
11031	1234678-HpCDD	35822-46-9	0.662	JB	0.0255	5.53	1
11031	OCDD	3268-87-9	4.39	JB	0.0200	11.1	1
11031	2378-TCDF	51207-31-9	0.0416	JQ	0.0197	1.11	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0135	5.53	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0142	5.53	1
11031	123478-HxCDF	70648-26-9	0.149	JBQ	0.0185	5.53	1
11031	123678-HxCDF	57117-44-9	0.161	JB	0.0157	5.53	1
11031	123789-HxCDF	72918-21-9	0.0741	JB	0.0218	5.53	1
11031	234678-HxCDF	60851-34-5	0.0789	JBQ	0.0167	5.53	1
11031	1234678-HpCDF	67562-39-4	0.195	JBQ	0.0114	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0386	JBQ	0.0204	5.53	1
11031	OCDF	39001-02-0	0.329	JB	0.0331	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 11:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0285 U	0.0285	1.04	1
11031	12378-PeCDD	40321-76-4	0.0468 JBQ	0.0307	5.20	1
11031	123478-HxCDD	39227-28-6	0.0265 U	0.0265	5.20	1
11031	123678-HxCDD	57653-85-7	0.313 J	0.0270	5.20	1
11031	123789-HxCDD	19408-74-3	0.434 J	0.0283	5.20	1
11031	1234678-HpCDD	35822-46-9	0.395 JB	0.0262	5.20	1
11031	OCDD	3268-87-9	3.13 JB	0.0248	10.4	1
11031	2378-TCDF	51207-31-9	0.0243 J	0.0220	1.04	1
11031	12378-PeCDF	57117-41-6	0.0864 JB	0.0135	5.20	1
11031	23478-PeCDF	57117-31-4	0.110 JBQ	0.0140	5.20	1
11031	123478-HxCDF	70648-26-9	0.0320 JBQ	0.0263	5.20	1
11031	123678-HxCDF	57117-44-9	0.199 JBQ	0.0192	5.20	1
11031	123789-HxCDF	72918-21-9	0.0431 JBQ	0.0208	5.20	1
11031	234678-HxCDF	60851-34-5	0.0565 JB	0.0157	5.20	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.0101	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0163 U	0.0163	5.20	1
11031	OCDF	39001-02-0	0.221 JB	0.0380	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 12:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0241 U	0.0241	1.02	1
11031	12378-PeCDD	40321-76-4	0.0449 JBQ	0.0226	5.09	1
11031	123478-HxCDD	39227-28-6	0.0415 JQ	0.0316	5.09	1
11031	123678-HxCDD	57653-85-7	0.239 J	0.0317	5.09	1
11031	123789-HxCDD	19408-74-3	0.187 JQ	0.0310	5.09	1
11031	1234678-HpCDD	35822-46-9	10.2 B	0.0505	5.09	1
11031	OCDD	3268-87-9	122 B	0.0526	10.2	1
11031	2378-TCDF	51207-31-9	0.0215 U	0.0215	1.02	1
11031	12378-PeCDF	57117-41-6	0.0365 JBQ	0.0140	5.09	1
11031	23478-PeCDF	57117-31-4	0.115 JBQ	0.0130	5.09	1
11031	123478-HxCDF	70648-26-9	0.0727 JBQ	0.0195	5.09	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0182	5.09	1
11031	123789-HxCDF	72918-21-9	0.0498 JBQ	0.0208	5.09	1
11031	234678-HxCDF	60851-34-5	0.0652 JBQ	0.0175	5.09	1
11031	1234678-HpCDF	67562-39-4	0.709 JB	0.0181	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0713 JB	0.0251	5.09	1
11031	OCDF	39001-02-0	1.77 JB	0.0299	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 13:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0427 U	0.0427	1.06	1
11031	12378-PeCDD	40321-76-4	0.0489 JBQ	0.0300	5.28	1
11031	123478-HxCDD	39227-28-6	0.0342 U	0.0342	5.28	1
11031	123678-HxCDD	57653-85-7	0.446 J	0.0332	5.28	1
11031	123789-HxCDD	19408-74-3	0.762 J	0.0307	5.28	1
11031	1234678-HpCDD	35822-46-9	2.70 JB	0.0493	5.28	1
11031	OCDD	3268-87-9	20.9 B	0.0287	10.6	1
11031	2378-TCDF	51207-31-9	0.0334 U	0.0334	1.06	1
11031	12378-PeCDF	57117-41-6	0.0636 JBQ	0.0168	5.28	1
11031	23478-PeCDF	57117-31-4	0.0637 JB	0.0180	5.28	1
11031	123478-HxCDF	70648-26-9	0.0579 JBQ	0.0257	5.28	1
11031	123678-HxCDF	57117-44-9	0.182 JB	0.0209	5.28	1
11031	123789-HxCDF	72918-21-9	0.110 JBQ	0.0243	5.28	1
11031	234678-HxCDF	60851-34-5	0.0422 JB	0.0198	5.28	1
11031	1234678-HpCDF	67562-39-4	0.364 JB	0.0153	5.28	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0267	5.28	1
11031	OCDF	39001-02-0	0.667 JB	0.0484	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 17:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0376	JQ	0.0366	1.02	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	5.12	1
11031	123478-HxCDD	39227-28-6	0.0217	U	0.0217	5.12	1
11031	123678-HxCDD	57653-85-7	0.0787	JQ	0.0220	5.12	1
11031	123789-HxCDD	19408-74-3	0.127	JQ	0.0220	5.12	1
11031	1234678-HpCDD	35822-46-9	0.591	JBQ	0.0301	5.12	1
11031	OCDD	3268-87-9	2.78	JB	0.0195	10.2	1
11031	2378-TCDF	51207-31-9	0.0294	U	0.0294	1.02	1
11031	12378-PeCDF	57117-41-6	0.0278	JB	0.0159	5.12	1
11031	23478-PeCDF	57117-31-4	0.0980	JBQ	0.0169	5.12	1
11031	123478-HxCDF	70648-26-9	0.0426	JBQ	0.0168	5.12	1
11031	123678-HxCDF	57117-44-9	0.0179	JBQ	0.0140	5.12	1
11031	123789-HxCDF	72918-21-9	0.0730	JBQ	0.0155	5.12	1
11031	234678-HxCDF	60851-34-5	0.0712	JBQ	0.0134	5.12	1
11031	1234678-HpCDF	67562-39-4	0.191	JB	0.0102	5.12	1
11031	1234789-HpCDF	55673-89-7	0.0489	JBQ	0.0182	5.12	1
11031	OCDF	39001-02-0	0.252	JBQ	0.0377	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

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Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 18:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152								
Moisture Content by 160.3					102		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11283001	Sample number(s): 6426145-6426152								
2378-TCDD	0.0290 U	0.0290	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0326 J	0.0224	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0170 U	0.0170	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0176 U	0.0176	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0169 U	0.0169	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	96		70-140		
OCDD	0.392 J	0.0160	10.0	ng/kg	95		78-144		
2378-TCDF	0.0216 U	0.0216	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0149 J	0.0125	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0319 J	0.0127	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0314 J	0.0139	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0471 J	0.0114	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0484 J	0.0132	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0274 J	0.0107	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.129 J	0.00980	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0187 J	0.0142	5.00	ng/kg	96		78-138		
OCDF	0.121 J	0.0323	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152 BKG: P426127								
Moisture Content by 160.3						6.6	5.9	11	20
Batch number: 11283001	Sample number(s): 6426145-6426152 UNSPK: P422605								
2378-TCDD	96	101	67-158	4	25				
12378-PeCDD	99	99	70-142	1	25				
123478-HxCDD	97	100	70-164	2	25				
123678-HxCDD	94	98	76-134	4	25				
123789-HxCDD	96	97	64-162	0	25				
1234678-HpCDD	95	99	70-140	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	95	169*	78-144	54*	25				
2378-TCDF	94	96	75-158	2	25				
12378-PeCDF	95	95	80-134	0	25				
23478-PeCDF	94	94	68-160	1	25				
123478-HxCDF	93	95	72-134	2	25				
123678-HxCDF	93	92	84-130	1	25				
123789-HxCDF	94	95	78-130	0	25				
234678-HxCDF	94	94	70-156	1	25				
1234678-HpCDF	91	91	82-122	0	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	94	94	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11283001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6426145	73	65	62	67	69	74
6426146	76	71	69	72	71	76
6426147	70	64	44	52	67	44
6426148	79	67	64	76	70	65
6426149	70	60	39	53	64	58
6426150	77	72	69	75	77	76
6426151	72	65	56	67	67	65
6426152	74	67	55	68	68	68
Blank	80	72	62	74	76	74
MS	75	68	16*	15*	70	73
MSD	78	70	41	44	74	75
OPR	69	65	22	24	67	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6426145	79	71	74	68	81	78
6426146	77	77	78	73	78	77
6426147	71	65	66	69	82	75
6426148	95	65	66	76	86	86
6426149	76	59	60	70	82	84
6426150	88	76	81	76	85	87
6426151	89	63	65	72	78	81
6426152	92	64	68	77	83	87
Blank	92	74	78	82	92	92
MS	27	67	69	73	78	75
MSD	65	69	72	77	91	85
OPR	43	69	70	74	81	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6426145	86	83	86	69	68	
6426146	47	86	89	77	71	
6426147	47	87	90	68	69	
6426148	85	89	93	71	76	
6426149	80	86	88	64	70	
6426150	85	92	98	76	76	
6426151	80	86	90	67	76	
6426152	82	90	97	69	78	
Blank	92	100	105	73	80	
MS	81	85	87	71	75	
MSD	96	91	94	74	79	
OPR	83	93	96	62	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1269323 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The Surface code SS was added to the samples above per PB. NLM 10/4/11

acct# 1303 Grp# 1269393 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-084-SA7-SB-0.0-1.0	9/30/11	1205	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-113-SA7-SB-0.0-1.0	9/30/11	1406	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-115-SA7-SB-0.5-1.5	9/30/11	1223	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-132-SA7-SB-4.5	9/30/11	0819	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-4.0-5.0	9/30/11	0823	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-132-SA7-SB-9.0	9/30/11	0814	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-8.5-9.5	9/30/11	0810	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-180-SA7-SB-2.5	9/30/11	0947	SOIL	NONE	2-Encores										X											
SL-180-SA7-SB-2.0-3.0	9/30/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
FB-SA7-SB-093011	9/30/11	1240	WATER	NONE	1-1 liter amber														X							
EB-SA7-SB-093011	9/30/11	1245	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	SOIL	NONE	1-4 oz. jar														X							
TB-092911	9/30/11	1430	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0845	8767 9857 4445; 8767 9857 4456	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/21/2011
Group Number: 1272534
SDG: DE273
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA7-SB-2.0-3.0 Soil	6445463
SL-060-SA7-SB-2.5-3.5 Soil	6445464
SL-069-SA7-SB-2.5-3.5 Soil	6445465
SL-148-SA7-SB-0.0-1.0 Soil	6445466
SL-026-SA5DS-SB-4.0-5.0 Soil	6445467
SL-026-SA5DS-SB-9.0-10.0 Soil	6445468
SL-040-SA5DS-SB-4.0-5.0 Soil	6445469
SL-040-SA5DS-SB-9.0-10.0 Soil	6445470
SL-016-SA8S-SB-4.0-5.0 Soil	6445471
TB-102011 Water	6445473

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	J	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.62	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.1	25.46
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.66	J	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	2.8		0.41	1.2	1
10199	EFH (C21-C30)	n.a.	13		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	22		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.97	19.7	1
07914	Boron	7440-42-8	6.14		0.355	4.93	1
01650	Calcium	7440-70-2	2,530		2.47	19.7	1
01654	Iron	7439-89-6	19,000		2.58	19.7	1
01656	Lithium	7439-93-2	27.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,510		0.434	9.87	1
06958	Manganese	7439-96-5	303		0.0355	0.493	1
10145	Phosphorus	7723-14-0	400		0.345	9.87	1
01662	Potassium	7440-09-7	3,000		11.2	49.3	1
01667	Sodium	7440-23-5	73.6	J	5.87	98.7	1
07968	Strontium	7440-24-6	14.0		0.0247	0.493	1
06969	Tin	7440-31-5	2.51	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,060		0.0701	0.987	1
10146	Zirconium	7440-67-7	3.26	J	0.454	4.93	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0767	U	0.0767	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.51		0.0829	0.415	2
06126	Barium	7440-39-3	81.9		0.110	0.415	2
06127	Beryllium	7440-41-7	0.467		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.149		0.0456	0.104	2
06131	Chromium	7440-47-3	14.7		0.124	0.415	2
06132	Cobalt	7440-48-4	5.10		0.0207	0.104	2
06133	Copper	7440-50-8	6.73		0.0829	0.415	2
06135	Lead	7439-92-1	4.68		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.457		0.0518	0.104	2
06139	Nickel	7440-02-0	9.30		0.104	0.415	2
06141	Selenium	7782-49-2	0.137	J	0.0601	0.415	2
06142	Silver	7440-22-4	0.0253	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.243		0.0311	0.104	2
06148	Vanadium	7440-62-2	29.5		0.0228	0.104	2
06149	Zinc	7440-66-6	55.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.82	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.82	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.58		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 22:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/27/2011 16:24	Laura M Krieger	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:05	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:06	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:33	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 16:34	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 01:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 18:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 16:07	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.51
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.83	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	4.3		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.21	20.5	1
07914	Boron	7440-42-8	5.18		0.370	5.13	1
01650	Calcium	7440-70-2	2,240		2.57	20.5	1
01654	Iron	7439-89-6	17,200		2.68	20.5	1
01656	Lithium	7439-93-2	17.2		0.64	2.1	1
01657	Magnesium	7439-95-4	3,820		0.452	10.3	1
06958	Manganese	7439-96-5	168		0.0370	0.513	1
10145	Phosphorus	7723-14-0	98.7		0.359	10.3	1
01662	Potassium	7440-09-7	945		11.6	51.3	1
01667	Sodium	7440-23-5	156		6.11	103	1
07968	Strontium	7440-24-6	15.5		0.0257	0.513	1
06969	Tin	7440-31-5	2.62	J	0.329	10.3	1
06970	Titanium	7440-32-6	968		0.0729	1.03	1
10146	Zirconium	7440-67-7	2.54	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0752	U	0.0752	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.76		0.0813	0.407	2
06126	Barium	7440-39-3	36.1		0.108	0.407	2
06127	Beryllium	7440-41-7	0.398		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.0447	U	0.0447	0.102	2
06131	Chromium	7440-47-3	13.9		0.122	0.407	2
06132	Cobalt	7440-48-4	3.37		0.0203	0.102	2
06133	Copper	7440-50-8	4.05		0.0813	0.407	2
06135	Lead	7439-92-1	2.85		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.226		0.0508	0.102	2
06139	Nickel	7440-02-0	10.8		0.102	0.407	2
06141	Selenium	7782-49-2	0.0657	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0206	J	0.0144	0.102	2
06145	Thallium	7440-28-0	0.144		0.0305	0.102	2
06148	Vanadium	7440-62-2	25.5		0.0224	0.102	2
06149	Zinc	7440-66-6	27.1		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.68		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 22:29	Laura M Krieger	24.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:46	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:48	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 10:35	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:46	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	26.65
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.53	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	6.5		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	12		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.18	20.4	1
07914	Boron	7440-42-8	5.96		0.368	5.11	1
01650	Calcium	7440-70-2	2,750		2.55	20.4	1
01654	Iron	7439-89-6	23,500		2.67	20.4	1
01656	Lithium	7439-93-2	25.2		0.63	2.0	1
01657	Magnesium	7439-95-4	6,180		0.449	10.2	1
06958	Manganese	7439-96-5	322		0.0368	0.511	1
10145	Phosphorus	7723-14-0	359		0.357	10.2	1
01662	Potassium	7440-09-7	3,780		11.5	51.1	1
01667	Sodium	7440-23-5	78.9	J	6.08	102	1
07968	Strontium	7440-24-6	14.3		0.0255	0.511	1
06969	Tin	7440-31-5	2.68	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,240		0.0725	1.02	1
10146	Zirconium	7440-67-7	3.10	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.63		0.0833	0.417	2
06126	Barium	7440-39-3	82.7		0.110	0.417	2
06127	Beryllium	7440-41-7	0.585		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0879	J	0.0458	0.104	2
06131	Chromium	7440-47-3	22.9		0.125	0.417	2
06132	Cobalt	7440-48-4	6.74		0.0208	0.104	2
06133	Copper	7440-50-8	10.0		0.0833	0.417	2
06135	Lead	7439-92-1	4.83		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.347		0.0521	0.104	2
06139	Nickel	7440-02-0	15.8		0.104	0.417	2
06141	Selenium	7782-49-2	0.132	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0376	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.263		0.0313	0.104	2
06148	Vanadium	7440-62-2	43.1		0.0229	0.104	2
06149	Zinc	7440-66-6	56.4		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0992	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 16:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 23:07	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:08	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:09	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:45	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:59	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 10:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:47	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.8	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	8.1	J	6.2	19	1
10138	Chrysene	218-01-9	0.38	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.71	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	5.4		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	13		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.24	20.6	1
07914	Boron	7440-42-8	4.61	J	0.371	5.15	1
01650	Calcium	7440-70-2	2,570		2.58	20.6	1
01654	Iron	7439-89-6	19,700		2.69	20.6	1
01656	Lithium	7439-93-2	21.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,600		0.454	10.3	1
06958	Manganese	7439-96-5	253		0.0371	0.515	1
10145	Phosphorus	7723-14-0	258		0.361	10.3	1
01662	Potassium	7440-09-7	2,220		11.6	51.5	1
01667	Sodium	7440-23-5	74.8	J	6.13	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.515	1
06969	Tin	7440-31-5	2.69	J	0.330	10.3	1
06970	Titanium	7440-32-6	982		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.66	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	U	0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.44		0.0801	0.401	2
06126	Barium	7440-39-3	82.5		0.106	0.401	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.607	0.0160	0.100	2
06128	Cadmium	7440-43-9	0.0780 J	0.0441	0.100	2
06131	Chromium	7440-47-3	18.2	0.120	0.401	2
06132	Cobalt	7440-48-4	6.03	0.0200	0.100	2
06133	Copper	7440-50-8	7.01	0.0801	0.401	2
06135	Lead	7439-92-1	5.48	0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.466	0.0501	0.100	2
06139	Nickel	7440-02-0	11.7	0.100	0.401	2
06141	Selenium	7782-49-2	0.147 J	0.0581	0.401	2
06142	Silver	7440-22-4	0.0344 J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.227	0.0300	0.100	2
06148	Vanadium	7440-62-2	35.8	0.0220	0.100	2
06149	Zinc	7440-66-6	52.2	0.561	3.00	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.84	1.6	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.21	1.0	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.69	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 23:02	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 01:12	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:04	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 11:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.65	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.51	21.5	1
07914	Boron	7440-42-8	13.4		0.387	5.38	1
01650	Calcium	7440-70-2	5,730		2.69	21.5	1
01654	Iron	7439-89-6	28,500		14.0	108	5
01656	Lithium	7439-93-2	40.0		0.67	2.2	1
01657	Magnesium	7439-95-4	8,240		0.474	10.8	1
06958	Manganese	7439-96-5	323		0.0387	0.538	1
10145	Phosphorus	7723-14-0	588		0.377	10.8	1
01662	Potassium	7440-09-7	4,200		12.2	53.8	1
01667	Sodium	7440-23-5	164		6.40	108	1
07968	Strontium	7440-24-6	23.1		0.0269	0.538	1
06969	Tin	7440-31-5	2.74	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,380		0.0764	1.08	1
10146	Zirconium	7440-67-7	7.39		0.495	5.38	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	U	0.0804	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.73		0.0870	0.435	2
06126	Barium	7440-39-3	70.5		0.115	0.435	2
06127	Beryllium	7440-41-7	0.578		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0890	J	0.0478	0.109	2
06131	Chromium	7440-47-3	27.9		0.130	0.435	2
06132	Cobalt	7440-48-4	8.63		0.0217	0.109	2
06133	Copper	7440-50-8	10.8		0.0870	0.435	2
06135	Lead	7439-92-1	6.65		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.303		0.0543	0.109	2
06139	Nickel	7440-02-0	14.4		0.109	0.435	2
06141	Selenium	7782-49-2	0.206	J	0.0630	0.435	2
06142	Silver	7440-22-4	0.0154	U	0.0154	0.109	2
06145	Thallium	7440-28-0	0.269		0.0326	0.109	2
06148	Vanadium	7440-62-2	56.7		0.0239	0.109	2
06149	Zinc	7440-66-6	67.9		0.609	3.26	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.87	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.20		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:37	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112980018A	10/26/2011 19:33	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112980018A	10/26/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:20	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		6.64	22.0	1
07914	Boron	7440-42-8	17.5		0.395	5.49	1
01650	Calcium	7440-70-2	6,120		2.74	22.0	1
01654	Iron	7439-89-6	37,300		14.3	110	5
01656	Lithium	7439-93-2	52.9		0.68	2.2	1
01657	Magnesium	7439-95-4	10,500		0.483	11.0	1
06958	Manganese	7439-96-5	250		0.0395	0.549	1
10145	Phosphorus	7723-14-0	613		0.384	11.0	1
01662	Potassium	7440-09-7	6,250		12.4	54.9	1
01667	Sodium	7440-23-5	209		6.53	110	1
07968	Strontium	7440-24-6	31.9		0.0274	0.549	1
06969	Tin	7440-31-5	2.98	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,590		0.0779	1.10	1
10146	Zirconium	7440-67-7	7.92		0.505	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0880	J	0.0812	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86		0.0878	0.439	2
06126	Barium	7440-39-3	103		0.116	0.439	2
06127	Beryllium	7440-41-7	0.762		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.108	J	0.0483	0.110	2
06131	Chromium	7440-47-3	35.9		0.132	0.439	2
06132	Cobalt	7440-48-4	8.11		0.0220	0.110	2
06133	Copper	7440-50-8	20.6		0.0878	0.439	2
06135	Lead	7439-92-1	9.82		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.165		0.0549	0.110	2
06139	Nickel	7440-02-0	22.5		0.110	0.439	2
06141	Selenium	7782-49-2	0.344	J	0.0637	0.439	2
06142	Silver	7440-22-4	0.0195	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.395		0.0329	0.110	2
06148	Vanadium	7440-62-2	67.2		0.0241	0.110	2
06149	Zinc	7440-66-6	98.9		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.1		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:02	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:23	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 13:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		6.53	21.6	1
07914	Boron	7440-42-8	12.2		0.389	5.40	1
01650	Calcium	7440-70-2	3,610		2.70	21.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,900	14.1	108	5
01656	Lithium	7439-93-2	31.3	0.67	2.2	1
01657	Magnesium	7439-95-4	7,700	0.475	10.8	1
06958	Manganese	7439-96-5	295	0.0389	0.540	1
10145	Phosphorus	7723-14-0	372	0.378	10.8	1
01662	Potassium	7440-09-7	3,930	12.2	54.0	1
01667	Sodium	7440-23-5	903	6.42	108	1
07968	Strontium	7440-24-6	34.3	0.0270	0.540	1
06969	Tin	7440-31-5	2.92 J	0.346	10.8	1
06970	Titanium	7440-32-6	1,330	0.0767	1.08	1
10146	Zirconium	7440-67-7	8.67	0.497	5.40	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0827 J	0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.45	0.0864	0.432	2
06126	Barium	7440-39-3	107	0.114	0.432	2
06127	Beryllium	7440-41-7	0.852	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0595 J	0.0475	0.108	2
06131	Chromium	7440-47-3	36.9	0.130	0.432	2
06132	Cobalt	7440-48-4	10.5	0.0216	0.108	2
06133	Copper	7440-50-8	12.8	0.0864	0.432	2
06135	Lead	7439-92-1	8.46	0.0110	0.216	2
06138	Molybdenum	7439-98-7	0.606	0.0540	0.108	2
06139	Nickel	7440-02-0	19.5	0.108	0.432	2
06141	Selenium	7782-49-2	0.112 J	0.0626	0.432	2
06142	Silver	7440-22-4	0.0407 J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.353	0.0324	0.108	2
06148	Vanadium	7440-62-2	70.5	0.0238	0.108	2
06149	Zinc	7440-66-6	69.5	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	25.0	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.2	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:23	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:27	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 21:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		6.38	21.1	1
07914	Boron	7440-42-8	9.92		0.380	5.27	1
01650	Calcium	7440-70-2	3,970		2.64	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	31,200		13.8	105	5
01656	Lithium	7439-93-2	30.1		0.65	2.1	1
01657	Magnesium	7439-95-4	7,470		0.464	10.5	1
06958	Manganese	7439-96-5	339		0.0380	0.527	1
10145	Phosphorus	7723-14-0	467		0.369	10.5	1
01662	Potassium	7440-09-7	2,760		11.9	52.7	1
01667	Sodium	7440-23-5	848		6.27	105	1
07968	Strontium	7440-24-6	28.2		0.0264	0.527	1
06969	Tin	7440-31-5	2.92	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,240		0.0748	1.05	1
10146	Zirconium	7440-67-7	8.22		0.485	5.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0796	U	0.0796	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.47		0.0860	0.430	2
06126	Barium	7440-39-3	90.8		0.114	0.430	2
06127	Beryllium	7440-41-7	0.729		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.0473	U	0.0473	0.108	2
06131	Chromium	7440-47-3	39.9		0.129	0.430	2
06132	Cobalt	7440-48-4	10.7		0.0215	0.108	2
06133	Copper	7440-50-8	10.4		0.0860	0.430	2
06135	Lead	7439-92-1	7.86		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.471		0.0538	0.108	2
06139	Nickel	7440-02-0	19.3		0.108	0.430	2
06141	Selenium	7782-49-2	0.164	J	0.0624	0.430	2
06142	Silver	7440-22-4	0.0203	J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.280		0.0323	0.108	2
06148	Vanadium	7440-62-2	67.5		0.0237	0.108	2
06149	Zinc	7440-66-6	62.7		0.602	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:31	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 14:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.63	21.9	1
07914	Boron	7440-42-8	9.65		0.395	5.48	1
01650	Calcium	7440-70-2	11,200		2.74	21.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,900		2.86	21.9	1
01656	Lithium	7439-93-2	24.6		0.68	2.2	1
01657	Magnesium	7439-95-4	4,600		0.482	11.0	1
06958	Manganese	7439-96-5	403		0.0395	0.548	1
10145	Phosphorus	7723-14-0	300		0.384	11.0	1
01662	Potassium	7440-09-7	3,940		12.4	54.8	1
01667	Sodium	7440-23-5	83.0	J	6.52	110	1
07968	Strontium	7440-24-6	21.1		0.0274	0.548	1
06969	Tin	7440-31-5	2.71	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,150		0.0779	1.10	1
10146	Zirconium	7440-67-7	4.78	J	0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0780	U	0.0780	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.12		0.0843	0.422	2
06126	Barium	7440-39-3	116		0.112	0.422	2
06127	Beryllium	7440-41-7	0.735		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.176		0.0464	0.105	2
06131	Chromium	7440-47-3	22.5		0.127	0.422	2
06132	Cobalt	7440-48-4	8.16		0.0211	0.105	2
06133	Copper	7440-50-8	12.1		0.0843	0.422	2
06135	Lead	7439-92-1	6.92		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.490		0.0527	0.105	2
06139	Nickel	7440-02-0	16.1		0.105	0.422	2
06141	Selenium	7782-49-2	0.0647	J	0.0612	0.422	2
06142	Silver	7440-22-4	0.0377	J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.313		0.0316	0.105	2
06148	Vanadium	7440-62-2	43.7		0.0232	0.105	2
06149	Zinc	7440-66-6	62.0		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.1		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.17	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 02:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 21:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 15:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-102011 Water
SSFL Area IV Collocated Soil Sampling
TB-102011

LLI Sample # WW 6445473
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 08:00

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB120 SDG#: DE273-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471									
Aniline	170 U		170.	500	ug/kg	63		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	33		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	105		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	100		51-117		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11295SLC026	Sample number(s): 6445463-6445471									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	86		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	99		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11299A16A	Sample number(s): 6445463-6445465									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11300A20A	Sample number(s): 6445473									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112980018A	Sample number(s): 6445467									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 112990025A	Sample number(s): 6445463-6445471									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112970037A	Sample number(s): 6445463-6445466									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	100		68-129		
Batch number: 112980042A	Sample number(s): 6445463-6445466									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112990013A	Sample number(s): 6445463-6445466									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		69-109		
Batch number: 113000011A	Sample number(s): 6445463-6445466									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112971026003A	Sample number(s): 6445463-6445471									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6445463-6445471									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6445463-6445471									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6445463-6445471									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6445463-6445471									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6445463-6445471									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621201B	Sample number(s): 6445463-6445471									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11300102201A	Sample number(s): 6445463-6445466									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11305243201A	Sample number(s): 6445463-6445471									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203A	Sample number(s): 6445463-6445471									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11300039403A	Sample number(s): 6445463-6445471									
17a pH by 9045C						100		95-105		
Batch number: 11301162401B	Sample number(s): 6445463-6445471									
Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471 UNSPK: P443490								
Aniline	65	74	18-116	13	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	74	58	10-173	25	30				
Benzyl alcohol	90	94	67-115	5	30				
4-Bromophenyl-phenylether	92	96	67-129	4	30				
Carbazole	92	98	64-120	6	30				
4-Chloro-3-methylphenol	94	99	62-122	6	30				
4-Chloroaniline	55	70	13-107	24	30				
bis(2-Chloroethoxy)methane	93	98	75-104	6	30				
bis(2-Chloroethyl)ether	88	90	60-116	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	84	86	55-142	2	30				
2-Chloronaphthalene	71	74	50-141	4	30				
2-Chlorophenol	94	97	73-121	3	30				
4-Chlorophenyl-phenylether	94	97	80-109	3	30				
Dibenzofuran	91	96	71-112	5	30				
1,2-Dichlorobenzene	85	87	66-108	2	30				
1,3-Dichlorobenzene	85	86	63-109	1	30				
1,4-Dichlorobenzene	85	86	58-108	2	30				
3,3'-Dichlorobenzidine	39	55	28-109	33*	30				
2,4-Dichlorophenol	97	100	66-123	3	30				
2,4-Dimethylphenol	93	98	68-118	5	30				
3,5-Dimethylphenol	98	104	71-127	5	30				
4,6-Dinitro-2-methylphenol	80	46	11-126	53*	30				
2,4-Dinitrophenol	65	20	20-143	104*	30				
2,4-Dinitrotoluene	98	100	56-129	2	30				
2,6-Dinitrotoluene	97	101	69-123	4	30				
1,2-Diphenylhydrazine	94	97	71-129	3	30				
Hexachlorobenzene	91	96	77-114	5	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	87	86	10-153	1	30				
Hexachloroethane	84	84	57-109	0	30				
Isophorone	89	94	73-102	5	30				
2-Methylphenol	95	97	75-111	2	30				
4-Methylphenol	93	95	59-123	1	30				
2-Nitroaniline	98	101	67-125	3	30				
3-Nitroaniline	93	100	59-122	7	30				
4-Nitroaniline	81	89	41-109	10	30				
Nitrobenzene	89	95	57-125	7	30				
2-Nitrophenol	90	91	56-127	2	30				
4-Nitrophenol	86	90	37-129	5	30				
N-Nitroso-di-n-propylamine	84	87	60-116	3	30				
N-Nitrosodiphenylamine	95	98	71-122	4	30				
Pentachlorophenol	96	87	28-127	9	30				
Phenol	96	100	58-126	4	30				
1,2,4-Trichlorobenzene	88	93	72-115	5	30				
2,4,5-Trichlorophenol	94	98	58-129	4	30				
2,4,6-Trichlorophenol	94	96	56-134	2	30				
Batch number: 11295SLC026	Sample number(s): 6445463-6445471 UNSPK: P443491								
Acenaphthene	92	89	63-105	3	30				
Acenaphthylene	88	85	67-114	3	30				
Anthracene	95	92	73-115	3	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	92	90	58-142	2	30				
Benzo(b)fluoranthene	91	88	54-163	3	30				
Benzo(g,h,i)perylene	102	98	33-141	4	30				
Benzo(k)fluoranthene	93	92	57-153	1	30				
Butylbenzylphthalate	100	96	57-173	5	30				
Di-n-butylphthalate	94	94	65-148	0	30				
Chrysene	98	97	67-123	1	30				
Dibenz(a,h)anthracene	104	101	22-133	2	30				
Diethylphthalate	91	88	70-136	4	30				
Dimethylphthalate	94	91	74-118	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	124	119	39-167	4	30				
Fluoranthene	95	94	51-149	1	30				
Fluorene	91	88	66-122	3	30				
Indeno(1,2,3-cd)pyrene	104	100	21-143	3	30				
1-Methylnaphthalene	86	82	72-123	5	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	87	83	61-102	5	30				
N-Nitrosodimethylamine	96	89	48-113	8	30				
Di-n-octylphthalate	89	89	40-192	0	30				
Phenanthrene	91	88	62-122	3	30				
Pyrene	95	88	51-131	7	30				
Batch number: 112980018A	Sample number(s): 6445467 UNSPK: P439929								
6a Perchlorate EPA 6850	100	104	80-120	4	20				
Batch number: 112990025A	Sample number(s): 6445463-6445471 UNSPK: P446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112970037A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
Ethanol	84	91	48-130	8	20				
Isopropanol	90	94	12-149	5	20				
Methanol	89	100	43-138	11	20				
Batch number: 112980042A	Sample number(s): 6445463-6445466 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112990013A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
m-Terphenyl	107	105	75-125	2	20				
o-Terphenyl	106	105	75-125	2	20				
p-Terphenyl	106	104	75-125	2	20				
Batch number: 113000011A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
EFH (C12-C14)	119	283*	49-123	59*	20				
EFH (C15-C20)	494*	190*	49-123	55*	20				
EFH (C21-C30)	1022 (2)	728 (2)	49-123	20	20				
EFH (C30 - C40)	292 (2)	353 (2)	49-123	5	20				
EFH (C8-C11)	90	90	49-123	0	20				
Batch number: 112971026003A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20
Batch number: 112971026003D	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Barium	43 (2)	-80 (2)	75-125	11	20	109	113	3	20
Batch number: 112975708006	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400	28,100	2	20
Boron	96	92	84-115	2	20	9.74	9.76	0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800	11,100	14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600	27,400	7	20
Lithium	103	91	82-114	8	20	26.0	27.0	4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070	5,250	4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282	320	13	20
Phosphorus	87	98	75-125	5	20	168	165	2	20
Potassium	151*	80	75-125	18	20	2,640	2,740	3	20
Sodium	100	93	75-125	6	20	75.4 J	75.9 J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6	19.5	0	20
Tin	81	80	80-110	1	20	2.73 J	2.88 J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070	1,110	4	20
Zirconium	96	88	81-110	6	20	5.00	6.41	25* (1)	20
Batch number: 112975711003	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Mercury	95	102	65-135	9	20	0.0150 J	0.0204 J	30* (1)	20
Batch number: 11298621201B	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11300102201A	Sample number(s): 6445463-6445466 UNSPK: P443491 BKG: P443491								
16a Cyanide by 9012B	102		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11305243201A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
3a Cr VI by EPA 7199	94		75-125			0.21 J	0.56 J	90* (1)	20
Batch number: 11306621203A	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
11a Anions by 300.0 - Fluoride	73*		80-120			1.1	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			2.3	2.1	9 (1)	20
Batch number: 11300039403A	Sample number(s): 6445463-6445471 BKG: 6445463								
17a pH by 9045C						6.58	6.60	0	3
Batch number: 11301162401B	Sample number(s): 6445463-6445471 BKG: 6445471								
Moisture Content by 160.3						8.8	8.8	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11295SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	96	97	84	89	92	102
6445464	88	91	81	82	85	93
6445465	95	97	82	84	86	96
6445466	88	90	81	83	86	96
6445467	88	91	75	85	86	96
6445468	91	93	70	83	83	98
6445469	89	92	69	84	86	95
6445470	87	89	71	79	82	96
6445471	91	94	70	83	84	99
Blank	86	90	84	86	88	99
LCS	89	90	91	85	88	101
MS	92	94	86	86	87	96
MSD	95	98	89	91	92	101
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11295SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	90	55	69
6445464	96	79	68
6445465	92	78	72
6445466	86	77	71
6445467	88	79	88
6445468	82	72	82
6445469	85	77	86
6445470	79	72	82
6445471	87	60	85
Blank	93	82	81
LCS	98	81	86
MS	100	83	84
MSD	97	80	80
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

6445463	119
6445464	90
6445465	91
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11300A20A

	Trifluorotoluene-F
6445473	86
Blank	88
LCS	117
LCSD	115
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6445463	110	121*
6445464	115	129*
6445465	117	131*
6445466	97	109
6445467	101	106
6445468	104	96
6445469	101	113
6445470	107	113
6445471	95	100
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112970037A

	Acetone
6445463	89
6445464	92
6445465	94
6445466	89
Blank	97
LCS	103
MS	94
MSD	95
Limits:	42-138

Analysis Name: 19a Glycols by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

Batch number: 112980042A

	Tetramethylene glycol
6445463	88
6445464	88
6445465	86
6445466	87
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112990013A

	n-Triacontane-d62
6445463	86
6445464	78
6445465	75
6445466	93
Blank	76
LCS	76
MS	95
MSD	85
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113000011A

	Chlorobenzene	Orthoterphenyl
6445463	84	87
6445464	89	91
6445465	85	89
6445466	90	92
Blank	83	87
LCS	80	90
MS	85	75
MSD	88	81
Limits:	37-125	47-145

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13013 1272534 6445463-73

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-023-SA7-SB-2.5	10.20.11	0915	SOIL	NONE	2-Encores										X											
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-060-SA7-SB-3.0	10.20.11	1100	SOIL	NONE	2-Encores										X											
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-069-SA7-SB-3.0	10.20.11	1520	SOIL	NONE	2-Encores										X											
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	1-SS Sleeve			X	X																	
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-026-SA5DS-SB-4.0-5.0	10.20.11	1237	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
SL-026-SA5DS-SB-9.0-10.0	10.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-4.0-5.0	10.20.11	1001	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-9.0-10.0	10.20.11	0920	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-016-SA8S-SB-4.0-5.0	10.20.11	1508	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA5DS-SB-102011	10.20.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-DTP crew
TB-~~4012011~~ 102011 NLA 10/21/11	10.20.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/20/2011 / 1630	10/21/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8767 9858 7618,7629	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272728
SDG: DE277
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446809
SL-018-SA8S-SB-4.0-5.0 Soil	6446810
SL-018-SA8S-SB-4.0-5.0MS Soil	6446811
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446812
SL-018-SA8S-SB-4.0-5.0DUP Soil	6446813
SL-018-SA8S-SB-4.0-5.0RL MS Soil	6446814
SL-018-SA8S-SB-4.0-5.0RL LCS Soil	6446815
SL-018-SA8S-SB-7.5-8.5 Soil	6446816
DUP02-SA8S-QC-102111 Soil	6446817
SL-065-SA7-SB-2.0-3.0 Soil	6446818
SL-014-SA8S-SB-4.0-5.0 Soil	6446819
SL-014-SA8S-SB-7.0-8.0 Soil	6446820
SL-015-SA8S-SB-4.0-5.0 Soil	6446821
SL-015-SA8S-SB-9.0-10.0 Soil	6446822

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	50		6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,400		6.51	21.5	1
07914	Boron	7440-42-8	11.5		0.387	5.38	1
01650	Calcium	7440-70-2	5,480		2.69	21.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,700		14.0	108	5
01656	Lithium	7439-93-2	27.9		0.67	2.2	1
01657	Magnesium	7439-95-4	6,630		0.474	10.8	1
06958	Manganese	7439-96-5	299		0.0387	0.538	1
10145	Phosphorus	7723-14-0	399		0.377	10.8	1
01662	Potassium	7440-09-7	3,490		12.2	53.8	1
01667	Sodium	7440-23-5	94.3	J	6.40	108	1
07968	Strontium	7440-24-6	22.0		0.0269	0.538	1
06969	Tin	7440-31-5	2.80	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,200		0.0764	1.08	1
10146	Zirconium	7440-67-7	6.32		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0789	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.70		0.0853	0.426	2
06126	Barium	7440-39-3	74.8		0.113	0.426	2
06127	Beryllium	7440-41-7	0.757		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.159		0.0469	0.107	2
06131	Chromium	7440-47-3	28.5		0.128	0.426	2
06132	Cobalt	7440-48-4	9.96		0.0213	0.107	2
06133	Copper	7440-50-8	15.0		0.0853	0.426	2
06135	Lead	7439-92-1	8.87		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.555		0.0533	0.107	2
06139	Nickel	7440-02-0	17.7		0.107	0.426	2
06141	Selenium	7782-49-2	0.233	J	0.0618	0.426	2
06142	Silver	7440-22-4	0.0315	J	0.0151	0.107	2
06145	Thallium	7440-28-0	0.291		0.0320	0.107	2
06148	Vanadium	7440-62-2	48.3		0.0234	0.107	2
06149	Zinc	7440-66-6	68.2		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

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Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 02:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:45	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:35	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.51	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.80	J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		6.63	21.9	1
07914	Boron	7440-42-8	10.9		0.394	5.48	1
01650	Calcium	7440-70-2	14,300		2.74	21.9	1
01654	Iron	7439-89-6	28,600		14.3	110	5
01656	Lithium	7439-93-2	29.1		0.68	2.2	1
01657	Magnesium	7439-95-4	5,660		0.482	11.0	1
06958	Manganese	7439-96-5	315		0.0394	0.548	1
10145	Phosphorus	7723-14-0	187		0.383	11.0	1
01662	Potassium	7440-09-7	2,950		12.4	54.8	1
01667	Sodium	7440-23-5	84.3	J	6.52	110	1
07968	Strontium	7440-24-6	21.8		0.0274	0.548	1
06969	Tin	7440-31-5	3.05	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,190		0.0778	1.10	1
10146	Zirconium	7440-67-7	5.59		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0827	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40		0.0894	0.447	2
06126	Barium	7440-39-3	122		0.118	0.447	2
06127	Beryllium	7440-41-7	0.920		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0985	J	0.0492	0.112	2
06131	Chromium	7440-47-3	28.6		0.134	0.447	2
06132	Cobalt	7440-48-4	8.56		0.0223	0.112	2
06133	Copper	7440-50-8	12.7		0.0894	0.447	2
06135	Lead	7439-92-1	8.34		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.596		0.0559	0.112	2
06139	Nickel	7440-02-0	17.1		0.112	0.447	2
06141	Selenium	7782-49-2	0.0883	J	0.0648	0.447	2
06142	Silver	7440-22-4	0.0334	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.357		0.0335	0.112	2
06148	Vanadium	7440-62-2	55.5		0.0246	0.112	2
06149	Zinc	7440-66-6	59.7		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168	J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.87	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:23	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:05	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:00	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 12:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,400		190	560	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	530	J	190	560	1
04688	Benzyl alcohol	100-51-6	1,800		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190	1
04688	4-Chloroaniline	106-47-8	1,200		74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	190	1
04688	Chrysene	218-01-9	1,700		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	190	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		190	560	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	370	1
04688	Fluoranthene	206-44-0	1,900		19	190	1
04688	Fluorene	86-73-7	1,800		19	190	1
04688	Hexachlorobenzene	118-74-1	1,800		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700		74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560	1
04688	Hexachloroethane	67-72-1	1,500		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190	1
04688	2-Methylphenol	95-48-7	1,800	37	190	1
04688	4-Methylphenol	106-44-5	1,800	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,500	74	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,600	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.74	1.9	1
10138	Acenaphthylene	208-96-8	32	0.37	1.9	1
10138	Anthracene	120-12-7	34	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	34	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	34	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	35	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	36	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	36	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	39	6.7	20	1
10138	Chrysene	218-01-9	34	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.74	1.9	1
10138	Diethylphthalate	84-66-2	36	6.7	20	1
10138	Dimethylphthalate	131-11-3	36	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	6.7	20	1
10138	Fluoranthene	206-44-0	35	0.74	1.9	1
10138	Fluorene	86-73-7	35	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	31	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.74	1.9	1
10138	Naphthalene	91-20-3	31		0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	54		6.7	20	1
10138	Phenanthrene	85-01-8	33		0.74	1.9	1
10138	Pyrene	129-00-0	34		0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	20		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	4.6		0.37	1.9	1
10225	PCB-1260	11096-82-5	21		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		6.63	21.9	1
07914	Boron	7440-42-8	220		0.394	5.48	1
01650	Calcium	7440-70-2	14,100		2.74	21.9	1
01654	Iron	7439-89-6	31,200		14.3	110	5
01656	Lithium	7439-93-2	142		0.68	2.2	1
01657	Magnesium	7439-95-4	6,220		0.482	11.0	1
06958	Manganese	7439-96-5	338		0.0394	0.548	1
10145	Phosphorus	7723-14-0	282		0.383	11.0	1
01662	Potassium	7440-09-7	4,610		12.4	54.8	1
01667	Sodium	7440-23-5	1,180		6.52	110	1
07968	Strontium	7440-24-6	131		0.0274	0.548	1
06969	Tin	7440-31-5	357		0.351	11.0	1
06970	Titanium	7440-32-6	1,430		0.0778	1.10	1
10146	Zirconium	7440-67-7	111		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.476		0.0803	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.19		0.0868	0.434	2
06126	Barium	7440-39-3	126		0.115	0.434	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.70	0.0174	0.108	2
06128	Cadmium	7440-43-9	1.23	0.0477	0.108	2
06131	Chromium	7440-47-3	38.1	0.130	0.434	2
06132	Cobalt	7440-48-4	63.1	0.0217	0.108	2
06133	Copper	7440-50-8	23.1	0.0868	0.434	2
06135	Lead	7439-92-1	11.6	0.0111	0.217	2
06138	Molybdenum	7439-98-7	10.8	0.0542	0.108	2
06139	Nickel	7440-02-0	27.1	0.108	0.434	2
06141	Selenium	7782-49-2	2.07	0.0629	0.434	2
06142	Silver	7440-22-4	11.3	0.0154	0.108	2
06145	Thallium	7440-28-0	0.755	0.0325	0.108	2
06148	Vanadium	7440-62-2	64.2	0.0239	0.108	2
06149	Zinc	7440-66-6	66.9	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.0	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	587	10.1	33.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:49	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:38	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:57	Jessica L Miller	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11313621201A	11/09/2011 15:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 13:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11306621203B	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,900		18	180	1
04688	Aniline	62-53-3	1,300		180	550	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180	1
04688	Benzoic acid	65-85-0	530	J	180	550	1
04688	Benzyl alcohol	100-51-6	1,800		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180	1
04688	Carbazole	86-74-8	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180	1
04688	4-Chloroaniline	106-47-8	1,200		74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,700		18	180	1
04688	2-Chlorophenol	95-57-8	1,800		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	370	1
04688	Fluoranthene	206-44-0	1,900		18	180	1
04688	Fluorene	86-73-7	1,800		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600		74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,100		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180	1
04688	Isophorone	78-59-1	1,800		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,800	18	180	1
04688	2-Methylphenol	95-48-7	1,800	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,800	37	180	1
04688	4-Nitroaniline	100-01-6	1,600	74	180	1
04688	Nitrobenzene	98-95-3	1,800	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,700	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	550	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,800	18	180	1
04688	Pyrene	129-00-0	1,700	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8	1
10138	Acenaphthylene	208-96-8	34	0.37	1.8	1
10138	Anthracene	120-12-7	34	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	35	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	38	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	38	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	40	6.6	20	1
10138	Chrysene	218-01-9	35	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.73	1.8	1
10138	Diethylphthalate	84-66-2	37	6.6	20	1
10138	Dimethylphthalate	131-11-3	37	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54	6.6	20	1
10138	Fluoranthene	206-44-0	36	0.73	1.8	1
10138	Fluorene	86-73-7	36	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	32	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8	1
10138	Naphthalene	91-20-3	33		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	67		6.6	20	1
10138	Phenanthrene	85-01-8	34		0.73	1.8	1
10138	Pyrene	129-00-0	35		0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	23		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	6.2		0.37	1.9	1
10225	PCB-1260	11096-82-5	23		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		6.76	22.3	1
07914	Boron	7440-42-8	215		0.402	5.59	1
01650	Calcium	7440-70-2	14,600		2.79	22.3	1
01654	Iron	7439-89-6	25,500		2.92	22.3	1
01656	Lithium	7439-93-2	131		0.69	2.2	1
01657	Magnesium	7439-95-4	5,430		0.492	11.2	1
06958	Manganese	7439-96-5	344		0.0402	0.559	1
10145	Phosphorus	7723-14-0	296		0.391	11.2	1
01662	Potassium	7440-09-7	3,850		12.6	55.9	1
01667	Sodium	7440-23-5	1,120		6.65	112	1
07968	Strontium	7440-24-6	129		0.0279	0.559	1
06969	Tin	7440-31-5	359		0.358	11.2	1
06970	Titanium	7440-32-6	1,370		0.0793	1.12	1
10146	Zirconium	7440-67-7	104		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.470		0.0795	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.63		0.0859	0.430	2
06126	Barium	7440-39-3	113		0.114	0.430	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	1.54	0.0172	0.107	2
06128	Cadmium	7440-43-9	1.13	0.0473	0.107	2
06131	Chromium	7440-47-3	35.0	0.129	0.430	2
06132	Cobalt	7440-48-4	60.8	0.0215	0.107	2
06133	Copper	7440-50-8	22.3	0.0859	0.430	2
06135	Lead	7439-92-1	9.95	0.0110	0.215	2
06138	Molybdenum	7439-98-7	10.5	0.0537	0.107	2
06139	Nickel	7440-02-0	26.2	0.107	0.430	2
06141	Selenium	7782-49-2	2.17	0.0623	0.430	2
06142	Silver	7440-22-4	11.0	0.0153	0.107	2
06145	Thallium	7440-28-0	0.697	0.0322	0.107	2
06148	Vanadium	7440-62-2	61.0	0.0236	0.107	2
06149	Zinc	7440-66-6	64.5	0.602	3.22	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.203	0.0077	0.110	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:14	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:11	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.76	22.3	1
07914	Boron	7440-42-8	10.9		0.402	5.59	1
01650	Calcium	7440-70-2	12,400		2.79	22.3	1
01654	Iron	7439-89-6	30,600		14.6	112	5
01656	Lithium	7439-93-2	30.1		0.69	2.2	1
01657	Magnesium	7439-95-4	5,870		0.492	11.2	1
06958	Manganese	7439-96-5	357		0.0402	0.559	1
10145	Phosphorus	7723-14-0	184		0.391	11.2	1
01662	Potassium	7440-09-7	3,060		12.6	55.9	1
01667	Sodium	7440-23-5	84.8	J	6.65	112	1
07968	Strontium	7440-24-6	21.7		0.0279	0.559	1
06969	Tin	7440-31-5	3.22	J	0.358	11.2	1
06970	Titanium	7440-32-6	1,240		0.0793	1.12	1
10146	Zirconium	7440-67-7	7.16		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0900	J	0.0811	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.80		0.0876	0.438	2
06126	Barium	7440-39-3	126		0.116	0.438	2
06127	Beryllium	7440-41-7	0.909		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0833	J	0.0482	0.110	2
06131	Chromium	7440-47-3	28.2		0.131	0.438	2
06132	Cobalt	7440-48-4	8.78		0.0219	0.110	2
06133	Copper	7440-50-8	13.2		0.0876	0.438	2
06135	Lead	7439-92-1	8.21		0.0112	0.219	2
06138	Molybdenum	7439-98-7	0.561		0.0548	0.110	2
06139	Nickel	7440-02-0	17.5		0.110	0.438	2
06141	Selenium	7782-49-2	0.112	J	0.0635	0.438	2
06142	Silver	7440-22-4	0.0328	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.313		0.0329	0.110	2
06148	Vanadium	7440-62-2	55.9		0.0241	0.110	2
06149	Zinc	7440-66-6	59.4		0.613	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0228	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 13:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446814
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	3.0		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	2.8		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	10.5		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446815
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.0		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	5.5		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		6.53	21.6	1
07914	Boron	7440-42-8	3.99	J	0.389	5.40	1
01650	Calcium	7440-70-2	8,290		2.70	21.6	1
01654	Iron	7439-89-6	17,400		2.82	21.6	1
01656	Lithium	7439-93-2	23.9		0.67	2.2	1
01657	Magnesium	7439-95-4	3,170		0.475	10.8	1
06958	Manganese	7439-96-5	179		0.0389	0.540	1
10145	Phosphorus	7723-14-0	358		0.378	10.8	1
01662	Potassium	7440-09-7	1,680		12.2	54.0	1
01667	Sodium	7440-23-5	73.6	J	6.43	108	1
07968	Strontium	7440-24-6	21.2		0.0270	0.540	1
06969	Tin	7440-31-5	2.87	J	0.346	10.8	1
06970	Titanium	7440-32-6	986		0.0767	1.08	1
10146	Zirconium	7440-67-7	3.02	J	0.497	5.40	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0783	U	0.0783	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.24		0.0847	0.423	2
06126	Barium	7440-39-3	77.2		0.112	0.423	2
06127	Beryllium	7440-41-7	0.519		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0466	U	0.0466	0.106	2
06131	Chromium	7440-47-3	12.7		0.127	0.423	2
06132	Cobalt	7440-48-4	5.54		0.0212	0.106	2
06133	Copper	7440-50-8	6.42		0.0847	0.423	2
06135	Lead	7439-92-1	4.81		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.393		0.0529	0.106	2
06139	Nickel	7440-02-0	7.43		0.106	0.423	2
06141	Selenium	7782-49-2	0.0614	U	0.0614	0.423	2
06142	Silver	7440-22-4	0.0258	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.242		0.0318	0.106	2
06148	Vanadium	7440-62-2	31.5		0.0233	0.106	2
06149	Zinc	7440-66-6	48.7		0.593	3.18	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:39	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:19	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		6.51	21.5	1
07914	Boron	7440-42-8	9.11		0.387	5.38	1
01650	Calcium	7440-70-2	26,100		2.69	21.5	1
01654	Iron	7439-89-6	27,000		2.81	21.5	1
01656	Lithium	7439-93-2	27.4		0.67	2.2	1
01657	Magnesium	7439-95-4	5,210		0.473	10.8	1
06958	Manganese	7439-96-5	363		0.0387	0.538	1
10145	Phosphorus	7723-14-0	219		0.376	10.8	1
01662	Potassium	7440-09-7	3,050		12.2	53.8	1
01667	Sodium	7440-23-5	83.1	J	6.40	108	1
07968	Strontium	7440-24-6	23.4		0.0269	0.538	1
06969	Tin	7440-31-5	2.70	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,090		0.0764	1.08	1
10146	Zirconium	7440-67-7	5.19	J	0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0820	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72		0.0886	0.443	2
06126	Barium	7440-39-3	114		0.117	0.443	2
06127	Beryllium	7440-41-7	0.862		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0919	J	0.0487	0.111	2
06131	Chromium	7440-47-3	26.8		0.133	0.443	2
06132	Cobalt	7440-48-4	7.19		0.0221	0.111	2
06133	Copper	7440-50-8	11.7		0.0886	0.443	2
06135	Lead	7439-92-1	7.48		0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.550		0.0554	0.111	2
06139	Nickel	7440-02-0	15.5		0.111	0.443	2
06141	Selenium	7782-49-2	0.162	J	0.0642	0.443	2
06142	Silver	7440-22-4	0.0444	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.285		0.0332	0.111	2
06148	Vanadium	7440-62-2	51.7		0.0244	0.111	2
06149	Zinc	7440-66-6	52.8		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0271	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:04	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:52	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.24	20.6	1
07914	Boron	7440-42-8	4.54	J	0.371	5.16	1
01650	Calcium	7440-70-2	4,150		2.58	20.6	1
01654	Iron	7439-89-6	20,800		2.69	20.6	1
01656	Lithium	7439-93-2	25.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,780		0.454	10.3	1
06958	Manganese	7439-96-5	278		0.0371	0.516	1
10145	Phosphorus	7723-14-0	334		0.361	10.3	1
01662	Potassium	7440-09-7	2,510		11.7	51.6	1
01667	Sodium	7440-23-5	82.4	J	6.14	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.516	1
06969	Tin	7440-31-5	2.70	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,040		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.99	J	0.474	5.16	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0734	U	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0794	0.397	2
06126	Barium	7440-39-3	68.1		0.105	0.397	2
06127	Beryllium	7440-41-7	0.505		0.0159	0.0992	2
06128	Cadmium	7440-43-9	0.0859	J	0.0437	0.0992	2
06131	Chromium	7440-47-3	15.6		0.119	0.397	2
06132	Cobalt	7440-48-4	5.17		0.0198	0.0992	2
06133	Copper	7440-50-8	7.95		0.0794	0.397	2
06135	Lead	7439-92-1	4.72		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.357		0.0496	0.0992	2
06139	Nickel	7440-02-0	9.90		0.0992	0.397	2
06141	Selenium	7782-49-2	0.0800	J	0.0575	0.397	2
06142	Silver	7440-22-4	0.0177	J	0.0141	0.0992	2
06145	Thallium	7440-28-0	0.258		0.0298	0.0992	2
06148	Vanadium	7440-62-2	31.9		0.0218	0.0992	2
06149	Zinc	7440-66-6	53.9		0.556	2.98	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.84	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.01		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:30	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:25	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:05	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.38	21.1	1
07914	Boron	7440-42-8	11.5		0.380	5.28	1
01650	Calcium	7440-70-2	60,400		13.2	106	5
01654	Iron	7439-89-6	25,500		2.75	21.1	1
01656	Lithium	7439-93-2	24.6		0.65	2.1	1
01657	Magnesium	7439-95-4	5,750		0.464	10.6	1
06958	Manganese	7439-96-5	366		0.0380	0.528	1
10145	Phosphorus	7723-14-0	490		0.369	10.6	1
01662	Potassium	7440-09-7	2,980		11.9	52.8	1
01667	Sodium	7440-23-5	88.7	J	6.28	106	1
07968	Strontium	7440-24-6	62.5		0.0264	0.528	1
06969	Tin	7440-31-5	2.50	J	0.338	10.6	1
06970	Titanium	7440-32-6	964		0.0749	1.06	1
10146	Zirconium	7440-67-7	3.69	J	0.485	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.54		0.0828	0.414	2
06126	Barium	7440-39-3	87.1		0.110	0.414	2
06127	Beryllium	7440-41-7	0.676		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.203		0.0455	0.104	2
06131	Chromium	7440-47-3	24.8		0.124	0.414	2
06132	Cobalt	7440-48-4	7.79		0.0207	0.104	2
06133	Copper	7440-50-8	13.3		0.0828	0.414	2
06135	Lead	7439-92-1	7.86		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.405		0.0518	0.104	2
06139	Nickel	7440-02-0	14.3		0.104	0.414	2
06141	Selenium	7782-49-2	0.245	J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0205	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.288		0.0311	0.104	2
06148	Vanadium	7440-62-2	45.1		0.0228	0.104	2
06149	Zinc	7440-66-6	60.1		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:56	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:58	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:24	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:47	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/31/2011 06:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 15:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	44		6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.53	21.6	1
07914	Boron	7440-42-8	11.8		0.389	5.40	1
01650	Calcium	7440-70-2	110,000		13.5	108	5
01654	Iron	7439-89-6	23,500		2.82	21.6	1
01656	Lithium	7439-93-2	23.6		0.67	2.2	1
01657	Magnesium	7439-95-4	5,890		0.475	10.8	1
06958	Manganese	7439-96-5	398		0.0389	0.540	1
10145	Phosphorus	7723-14-0	481		0.378	10.8	1
01662	Potassium	7440-09-7	3,260		12.2	54.0	1
01667	Sodium	7440-23-5	122		6.42	108	1
07968	Strontium	7440-24-6	107		0.0270	0.540	1
06969	Tin	7440-31-5	2.40	J	0.346	10.8	1
06970	Titanium	7440-32-6	963		0.0767	1.08	1
10146	Zirconium	7440-67-7	4.20	J	0.497	5.40	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0807	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.73		0.0872	0.436	2
06126	Barium	7440-39-3	92.4		0.116	0.436	2
06127	Beryllium	7440-41-7	0.659		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.233		0.0480	0.109	2
06131	Chromium	7440-47-3	26.1		0.131	0.436	2
06132	Cobalt	7440-48-4	7.85		0.0218	0.109	2
06133	Copper	7440-50-8	14.5		0.0872	0.436	2
06135	Lead	7439-92-1	8.44		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.364		0.0545	0.109	2
06139	Nickel	7440-02-0	15.7		0.109	0.436	2
06141	Selenium	7782-49-2	0.206	J	0.0632	0.436	2
06142	Silver	7440-22-4	0.0180	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.281		0.0327	0.109	2
06148	Vanadium	7440-62-2	45.8		0.0240	0.109	2
06149	Zinc	7440-66-6	58.6		0.611	3.27	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0076	0.108	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.22		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:21	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 10:31	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:50	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.59	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.24	20.6	1
07914	Boron	7440-42-8	12.8		0.371	5.15	1
01650	Calcium	7440-70-2	72,800		12.9	103	5
01654	Iron	7439-89-6	23,200		2.69	20.6	1
01656	Lithium	7439-93-2	23.2		0.64	2.1	1
01657	Magnesium	7439-95-4	5,900		0.454	10.3	1
06958	Manganese	7439-96-5	433		0.0371	0.515	1
10145	Phosphorus	7723-14-0	512		0.361	10.3	1
01662	Potassium	7440-09-7	3,310		11.6	51.5	1
01667	Sodium	7440-23-5	92.9	J	6.13	103	1
07968	Strontium	7440-24-6	72.6		0.0258	0.515	1
06969	Tin	7440-31-5	2.25	J	0.330	10.3	1
06970	Titanium	7440-32-6	893		0.0732	1.03	1
10146	Zirconium	7440-67-7	3.57	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0770	U	0.0770	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.76		0.0833	0.416	2
06126	Barium	7440-39-3	95.7		0.110	0.416	2
06127	Beryllium	7440-41-7	0.619		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.239		0.0458	0.104	2
06131	Chromium	7440-47-3	26.2		0.125	0.416	2
06132	Cobalt	7440-48-4	7.94		0.0208	0.104	2
06133	Copper	7440-50-8	13.2		0.0833	0.416	2
06135	Lead	7439-92-1	7.59		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.385		0.0520	0.104	2
06139	Nickel	7440-02-0	15.2		0.104	0.416	2
06141	Selenium	7782-49-2	0.224	J	0.0604	0.416	2
06142	Silver	7440-22-4	0.0154	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.314		0.0312	0.104	2
06148	Vanadium	7440-62-2	45.2		0.0229	0.104	2
06149	Zinc	7440-66-6	62.7		0.583	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.95		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:46	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:04	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:54	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.78	22.4	1
07914	Boron	7440-42-8	12.9		0.404	5.61	1
01650	Calcium	7440-70-2	92,700		14.0	112	5
01654	Iron	7439-89-6	25,200		2.93	22.4	1
01656	Lithium	7439-93-2	24.4		0.70	2.2	1
01657	Magnesium	7439-95-4	6,540		0.493	11.2	1
06958	Manganese	7439-96-5	375		0.0404	0.561	1
10145	Phosphorus	7723-14-0	517		0.392	11.2	1
01662	Potassium	7440-09-7	3,020		12.7	56.1	1
01667	Sodium	7440-23-5	116		6.67	112	1
07968	Strontium	7440-24-6	97.7		0.0280	0.561	1
06969	Tin	7440-31-5	2.59	J	0.359	11.2	1
06970	Titanium	7440-32-6	881		0.0796	1.12	1
10146	Zirconium	7440-67-7	4.87	J	0.516	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0813	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.29		0.0879	0.440	2
06126	Barium	7440-39-3	91.4		0.117	0.440	2
06127	Beryllium	7440-41-7	0.751		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.255		0.0484	0.110	2
06131	Chromium	7440-47-3	29.6		0.132	0.440	2
06132	Cobalt	7440-48-4	8.51		0.0220	0.110	2
06133	Copper	7440-50-8	15.0		0.0879	0.440	2
06135	Lead	7439-92-1	9.03		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.381		0.0550	0.110	2
06139	Nickel	7440-02-0	16.2		0.110	0.440	2
06141	Selenium	7782-49-2	0.436	J	0.0637	0.440	2
06142	Silver	7440-22-4	0.0213	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.284		0.0330	0.110	2
06148	Vanadium	7440-62-2	51.1		0.0242	0.110	2
06149	Zinc	7440-66-6	59.8		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/28/2011 00:11	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:37	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:58	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	106		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	86		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		74-115		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	37		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	75		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	95		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	103		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		

Batch number: 11299SLF026 Sample number(s): 6446809-6446812,6446816-6446822

Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	111		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11313621201A	Sample number(s): 6446811									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
17a pH by 9045C						100		95-105		
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	97	95	75-115	2	30				
Acenaphthylene	104	104	81-110	0	30				
Aniline	75	70	18-116	8	30				
Anthracene	100	97	75-115	4	30				
Benzidine	27*	27*	35-141	2	30				
Benzo(a)anthracene	93	95	65-122	1	30				
Benzo(a)pyrene	102	99	57-126	3	30				
Benzo(b)fluoranthene	101	98	59-125	4	30				
Benzo(g,h,i)perylene	96	95	59-127	1	30				
Benzo(k)fluoranthene	104	103	56-132	2	30				
Benzoic acid	28	29	10-173	0	30				
Benzyl alcohol	96	95	67-115	1	30				
4-Bromophenyl-phenylether	96	91	67-129	6	30				
Butylbenzylphthalate	96	98	73-134	1	30				
Di-n-butylphthalate	98	97	67-123	2	30				
Carbazole	96	96	64-120	1	30				
4-Chloro-3-methylphenol	99	99	62-122	0	30				
4-Chloroaniline	66	66	13-107	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	98	98	75-104	1	30				
bis(2-Chloroethyl)ether	91	89	60-116	3	30				
bis(2-Chloroisopropyl)ether	89	86	55-142	4	30				
2-Chloronaphthalene	84	91	50-141	8	30				
2-Chlorophenol	98	96	73-121	3	30				
4-Chlorophenyl-phenylether	97	95	80-109	2	30				
Chrysene	90	92	62-128	1	30				
Dibenz(a,h)anthracene	96	94	65-125	2	30				
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	85	85	66-108	1	30				
1,3-Dichlorobenzene	81	81	63-109	0	30				
1,4-Dichlorobenzene	83	83	58-108	0	30				
3,3'-Dichlorobenzidine	48	49	28-109	1	30				
2,4-Dichlorophenol	101	98	66-123	3	30				
Diethylphthalate	96	97	66-118	0	30				
2,4-Dimethylphenol	99	96	68-118	4	30				
3,5-Dimethylphenol	105	103	71-127	3	30				
Dimethylphthalate	98	98	64-118	1	30				
4,6-Dinitro-2-methylphenol	67	69	11-126	2	30				
2,4-Dinitrophenol	40	40	20-143	0	30				
2,4-Dinitrotoluene	97	101	56-129	4	30				
2,6-Dinitrotoluene	101	102	69-123	1	30				
1,2-Diphenylhydrazine	100	95	71-129	6	30				
bis(2-Ethylhexyl)phthalate	93	95	63-122	1	30				
Fluoranthene	101	103	73-112	2	30				
Fluorene	97	98	63-121	1	30				
Hexachlorobenzene	96	93	77-114	4	30				
Hexachlorobutadiene	91	88	62-120	4	30				
Hexachlorocyclopentadiene	90	85	10-153	6	30				
Hexachloroethane	80	80	57-109	0	30				
Indeno(1,2,3-cd)pyrene	97	95	61-126	2	30				
Isophorone	97	96	73-102	1	30				
1-Methylnaphthalene	93	92	64-122	1	30				
2-Methylnaphthalene	97	96	76-114	1	30				
2-Methylphenol	99	96	75-111	3	30				
4-Methylphenol	97	94	59-123	4	30				
Naphthalene	93	92	72-116	2	30				
2-Nitroaniline	100	100	67-125	1	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	81	85	41-109	5	30				
Nitrobenzene	95	95	57-125	1	30				
2-Nitrophenol	93	93	56-127	0	30				
4-Nitrophenol	88	94	37-129	6	30				
N-Nitroso-di-n-propylamine	90	87	60-116	4	30				
N-Nitrosodimethylamine	86	87	47-116	1	30				
N-Nitrosodiphenylamine	99	95	71-122	5	30				
Di-n-octylphthalate	108	106	56-126	2	30				
Pentachlorophenol	84	80	28-127	6	30				
Phenanthrene	97	95	65-125	3	30				
Phenol	102	99	58-126	4	30				
Pyrene	96	94	74-126	3	30				
1,2,4-Trichlorobenzene	92	91	72-115	1	30				
2,4,5-Trichlorophenol	95	93	58-129	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	97	96	56-134	2	30				
Batch number: 11299SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	87	94	63-105	6	30				
Acenaphthylene	85	92	67-114	6	30				
Anthracene	90	94	73-115	3	30				
Benzo(a)anthracene	92	98	59-128	4	30				
Benzo(a)pyrene	91	96	58-142	3	30				
Benzo(b)fluoranthene	93	99	54-163	5	30				
Benzo(g,h,i)perylene	91	93	33-141	1	30				
Benzo(k)fluoranthene	98	103	57-153	4	30				
Butylbenzylphthalate	97	105	57-173	6	30				
Di-n-butylphthalate	105	109	65-148	2	30				
Chrysene	91	96	67-123	3	30				
Dibenz(a,h)anthracene	95	98	22-133	1	30				
Diethylphthalate	98	101	70-136	2	30				
Dimethylphthalate	97	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	148	39-167	9	30				
Fluoranthene	95	99	51-149	3	30				
Fluorene	95	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	94	97	21-143	1	30				
1-Methylnaphthalene	83	88	72-123	4	30				
2-Methylnaphthalene	82	87	64-103	5	30				
Naphthalene	84	90	61-102	5	30				
N-Nitrosodimethylamine	86	93	48-113	6	30				
Di-n-octylphthalate	145	182	40-192	21	30				
Phenanthrene	88	93	62-122	4	30				
Pyrene	92	97	51-131	4	30				
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822 UNSPK: 6446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Barium	43 (2)	-80 (2)	75-125	11	20	109	113	3	20
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400	28,100	2	20
Boron	96	92	84-115	2	20	9.74	9.76	0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800	11,100	14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600	27,400	7	20
Lithium	103	91	82-114	8	20	26.0	27.0	4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070	5,250	4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282	320	13	20
Phosphorus	87	98	75-125	5	20	168	165	2	20
Potassium	151*	80	75-125	18	20	2,640	2,740	3	20
Sodium	100	93	75-125	6	20	75.4 J	75.9 J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6	19.5	0	20
Tin	81	80	80-110	1	20	2.73 J	2.88 J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070	1,110	4	20
Zirconium	96	88	81-110	6	20	5.00	6.41	25* (1)	20
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Mercury	95	102	65-135	9	20	0.0150 J	0.0204 J	30* (1)	20
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
3a Cr VI by EPA 7199	94		75-125			0.21 J	0.56 J	90* (1)	20
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
11a Anions by 300.0 - Fluoride	76*		80-120			1.3	1.3	0 (1)	20
Batch number: 11313621201A	Sample number(s): 6446811 UNSPK: P462616 BKG: P462616								
11a Anions by 300.0 - Fluoride	88		80-120			0.80 U	1.3	200* (1)	20
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 BKG: 6446810								
17a pH by 9045C						7.87	7.91	1	3
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822 BKG: 6446810								
28a Moisture Content by 160.3						10.5	10.7	1	20
Moisture Content by 160.3						10.5	10.7	1	20
Moisture Content by 160.3						10.5	10.7	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11297SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	94	97	80	89	92	98
6446810	89	93	82	88	88	98
6446811	94	97	83	91	91	96
6446812	94	97	87	91	91	97
6446816	91	95	85	89	90	98
6446817	78	80	71	74	75	84
6446818	90	94	80	86	88	96
6446819	91	94	81	89	91	94
6446820	90	92	81	84	86	95
6446821	93	95	84	86	88	94
6446822	92	94	85	88	89	96
Blank	92	97	83	92	93	103
LCS	95	99	88	92	93	99
MS	94	97	83	91	91	96
MSD	94	97	87	91	91	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11299SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	91	87	94
6446810	84	80	87
6446811	88	84	89
6446812	94	87	91
6446816	91	86	95
6446817	85	84	90
6446818	91	86	91
6446819	91	87	91
6446820	92	87	90
6446821	91	88	94
6446822	88	84	88
Blank	97	95	102
LCS	92	87	90
MS	88	84	89
MSD	94	87	91
Limits:	67-129	63-129	51-141

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6446809	106	111
6446810	112	124*
6446811	108	109
6446812	104	118
6446814	120	141*
6446815	98	113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

6446816	108	124*
6446817	217*	247*
6446818	109	120
6446819	96	117
6446820	102	133*
6446821	99	113
6446822	116	130*
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

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**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1272728 Sample# 6446809-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber														X							HGL ASTM II WATER-DPTcrew
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272729
SDG: DX152
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446825
SL-018-SA8S-SB-4.0-5.0 Soil	6446826
SL-018-SA8S-SB-4.0-5.0MS Soil	6446827
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446828
SL-018-SA8S-SB-7.5-8.5 Soil	6446829
DUP02-SA8S-QC-102111 Soil	6446830
SL-065-SA7-SB-2.0-3.0 Soil	6446831
SL-014-SA8S-SB-4.0-5.0 Soil	6446832
SL-014-SA8S-SB-7.0-8.0 Soil	6446833
SL-015-SA8S-SB-4.0-5.0 Soil	6446834
SL-015-SA8S-SB-9.0-10.0 Soil	6446835

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0210 U	0.0210	1.06	1
11031	12378-PeCDD	40321-76-4	0.0221 U	0.0221	5.31	1
11031	123478-HxCDD	39227-28-6	0.0181 U	0.0181	5.31	1
11031	123678-HxCDD	57653-85-7	0.0497 JBQ	0.0184	5.31	1
11031	123789-HxCDD	19408-74-3	0.0529 JBQ	0.0183	5.31	1
11031	1234678-HpCDD	35822-46-9	0.257 JB	0.0249	5.31	1
11031	OCDD	3268-87-9	0.605 JB	0.0304	10.6	1
11031	2378-TCDF	51207-31-9	0.0192 U	0.0192	1.06	1
11031	12378-PeCDF	57117-41-6	0.0279 JB	0.0141	5.31	1
11031	23478-PeCDF	57117-31-4	0.0470 JB	0.0144	5.31	1
11031	123478-HxCDF	70648-26-9	0.0490 JBQ	0.0154	5.31	1
11031	123678-HxCDF	57117-44-9	0.0296 JBQ	0.0117	5.31	1
11031	123789-HxCDF	72918-21-9	0.0615 JBQ	0.0122	5.31	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.0108	5.31	1
11031	1234678-HpCDF	67562-39-4	0.140 JB	0.0111	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0257 JBQ	0.0146	5.31	1
11031	OCDF	39001-02-0	0.149 JB	0.0234	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 02:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0263 U	0.0263	1.11	1
11031	12378-PeCDD	40321-76-4	0.0308 U	0.0308	5.56	1
11031	123478-HxCDD	39227-28-6	0.0229 JBQ	0.0184	5.56	1
11031	123678-HxCDD	57653-85-7	0.0187 U	0.0187	5.56	1
11031	123789-HxCDD	19408-74-3	0.0178 U	0.0178	5.56	1
11031	1234678-HpCDD	35822-46-9	0.226 JBQ	0.0219	5.56	1
11031	OCDD	3268-87-9	1.04 JB	0.0330	11.1	1
11031	2378-TCDF	51207-31-9	0.0257 U	0.0257	1.11	1
11031	12378-PeCDF	57117-41-6	0.0171 U	0.0171	5.56	1
11031	23478-PeCDF	57117-31-4	0.0480 JBQ	0.0179	5.56	1
11031	123478-HxCDF	70648-26-9	0.0341 JBQ	0.0161	5.56	1
11031	123678-HxCDF	57117-44-9	0.0279 JB	0.0141	5.56	1
11031	123789-HxCDF	72918-21-9	0.0151 U	0.0151	5.56	1
11031	234678-HxCDF	60851-34-5	0.0260 JBQ	0.0124	5.56	1
11031	1234678-HpCDF	67562-39-4	0.142 JB	0.0104	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0336 JBQ	0.0143	5.56	1
11031	OCDF	39001-02-0	0.173 JBQ	0.0280	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 03:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0299	1.09	1
11031	12378-PeCDD	40321-76-4	98.6	B	0.0431	5.45	1
11031	123478-HxCDD	39227-28-6	97.6	B	0.0332	5.45	1
11031	123678-HxCDD	57653-85-7	97.4	B	0.0341	5.45	1
11031	123789-HxCDD	19408-74-3	108	B	0.0333	5.45	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0644	5.45	1
11031	OCDD	3268-87-9	201	B	0.0361	10.9	1
11031	2378-TCDF	51207-31-9	20.3	B	0.0494	1.09	1
11031	12378-PeCDF	57117-41-6	99.9	B	0.0344	5.45	1
11031	23478-PeCDF	57117-31-4	95.1	B	0.0334	5.45	1
11031	123478-HxCDF	70648-26-9	101	B	0.0645	5.45	1
11031	123678-HxCDF	57117-44-9	101	B	0.0542	5.45	1
11031	123789-HxCDF	72918-21-9	105	B	0.0600	5.45	1
11031	234678-HxCDF	60851-34-5	96.6	B	0.0512	5.45	1
11031	1234678-HpCDF	67562-39-4	92.7	B	0.0413	5.45	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0577	5.45	1
11031	OCDF	39001-02-0	203	B	0.0391	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 04:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0442	1.10	1
11031	12378-PeCDD	40321-76-4	103	B	0.0403	5.49	1
11031	123478-HxCDD	39227-28-6	102	B	0.0534	5.49	1
11031	123678-HxCDD	57653-85-7	99.5	B	0.0544	5.49	1
11031	123789-HxCDD	19408-74-3	106	B	0.0495	5.49	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0684	5.49	1
11031	OCDD	3268-87-9	196	B	0.0422	11.0	1
11031	2378-TCDF	51207-31-9	20.5	B	0.0526	1.10	1
11031	12378-PeCDF	57117-41-6	98.7	B	0.0372	5.49	1
11031	23478-PeCDF	57117-31-4	95.5	B	0.0368	5.49	1
11031	123478-HxCDF	70648-26-9	100	B	0.0759	5.49	1
11031	123678-HxCDF	57117-44-9	102	B	0.0630	5.49	1
11031	123789-HxCDF	72918-21-9	102	B	0.0523	5.49	1
11031	234678-HxCDF	60851-34-5	99.7	B	0.0456	5.49	1
11031	1234678-HpCDF	67562-39-4	93.4	B	0.0589	5.49	1
11031	1234789-HpCDF	55673-89-7	98.6	B	0.0668	5.49	1
11031	OCDF	39001-02-0	205	B	0.0493	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 05:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275 U	0.0275	1.07	1
11031	12378-PeCDD	40321-76-4	0.0308 JBQ	0.0275	5.34	1
11031	123478-HxCDD	39227-28-6	0.0541 JBQ	0.0220	5.34	1
11031	123678-HxCDD	57653-85-7	0.0639 JB	0.0227	5.34	1
11031	123789-HxCDD	19408-74-3	0.0335 JBQ	0.0208	5.34	1
11031	1234678-HpCDD	35822-46-9	0.184 JBQ	0.0256	5.34	1
11031	OCDD	3268-87-9	0.489 JB	0.0336	10.7	1
11031	2378-TCDF	51207-31-9	0.0341 U	0.0341	1.07	1
11031	12378-PeCDF	57117-41-6	0.0509 JBQ	0.0174	5.34	1
11031	23478-PeCDF	57117-31-4	0.0758 JB	0.0176	5.34	1
11031	123478-HxCDF	70648-26-9	0.0575 JBQ	0.0207	5.34	1
11031	123678-HxCDF	57117-44-9	0.0452 JBQ	0.0162	5.34	1
11031	123789-HxCDF	72918-21-9	0.0557 JBQ	0.0173	5.34	1
11031	234678-HxCDF	60851-34-5	0.0667 JB	0.0143	5.34	1
11031	1234678-HpCDF	67562-39-4	0.136 JB	0.0114	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0176	5.34	1
11031	OCDF	39001-02-0	0.246 JBQ	0.0323	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 06:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243 U	0.0243	1.10	1
11031	12378-PeCDD	40321-76-4	0.0588 JB	0.0299	5.48	1
11031	123478-HxCDD	39227-28-6	0.0401 JBQ	0.0207	5.48	1
11031	123678-HxCDD	57653-85-7	0.0562 JBQ	0.0210	5.48	1
11031	123789-HxCDD	19408-74-3	0.0766 JBQ	0.0189	5.48	1
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0230	5.48	1
11031	OCDD	3268-87-9	0.563 JB	0.0341	11.0	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.10	1
11031	12378-PeCDF	57117-41-6	0.0565 JBQ	0.0166	5.48	1
11031	23478-PeCDF	57117-31-4	0.0699 JBQ	0.0180	5.48	1
11031	123478-HxCDF	70648-26-9	0.0763 JBQ	0.0197	5.48	1
11031	123678-HxCDF	57117-44-9	0.0378 JBQ	0.0164	5.48	1
11031	123789-HxCDF	72918-21-9	0.0635 JBQ	0.0174	5.48	1
11031	234678-HxCDF	60851-34-5	0.0628 JBQ	0.0151	5.48	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0116	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0401 JBQ	0.0155	5.48	1
11031	OCDF	39001-02-0	0.200 JB	0.0294	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	0.994	1
11031	12378-PeCDD	40321-76-4	0.109	JB	0.0250	4.97	1
11031	123478-HxCDD	39227-28-6	0.102	JBQ	0.0305	4.97	1
11031	123678-HxCDD	57653-85-7	0.199	JBQ	0.0308	4.97	1
11031	123789-HxCDD	19408-74-3	0.162	JBQ	0.0293	4.97	1
11031	1234678-HpCDD	35822-46-9	4.42	JB	0.0386	4.97	1
11031	OCDD	3268-87-9	42.6	B	0.0292	9.94	1
11031	2378-TCDF	51207-31-9	0.0253	U	0.0253	0.994	1
11031	12378-PeCDF	57117-41-6	0.173	JB	0.0249	4.97	1
11031	23478-PeCDF	57117-31-4	0.178	JB	0.0253	4.97	1
11031	123478-HxCDF	70648-26-9	1.17	JB	0.0413	4.97	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0358	4.97	1
11031	123789-HxCDF	72918-21-9	0.0732	JB	0.0411	4.97	1
11031	234678-HxCDF	60851-34-5	0.127	JBQ	0.0343	4.97	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0146	4.97	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0231	4.97	1
11031	OCDF	39001-02-0	3.79	JB	0.0335	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0364 JBQ	0.0269	1.06	1
11031	12378-PeCDD	40321-76-4	0.225 JB	0.0282	5.28	1
11031	123478-HxCDD	39227-28-6	0.112 JB	0.0208	5.28	1
11031	123678-HxCDD	57653-85-7	0.112 JBQ	0.0216	5.28	1
11031	123789-HxCDD	19408-74-3	0.0927 JBQ	0.0200	5.28	1
11031	1234678-HpCDD	35822-46-9	0.294 JB	0.0262	5.28	1
11031	OCDD	3268-87-9	0.521 JB	0.0294	10.6	1
11031	2378-TCDF	51207-31-9	0.0466 JBQ	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.0161	5.28	1
11031	23478-PeCDF	57117-31-4	0.192 JB	0.0167	5.28	1
11031	123478-HxCDF	70648-26-9	0.153 JBQ	0.0198	5.28	1
11031	123678-HxCDF	57117-44-9	0.146 JB	0.0164	5.28	1
11031	123789-HxCDF	72918-21-9	0.101 JBQ	0.0198	5.28	1
11031	234678-HxCDF	60851-34-5	0.108 JB	0.0165	5.28	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00947	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0817 JB	0.0144	5.28	1
11031	OCDF	39001-02-0	0.174 JB	0.0280	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 09:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.137	JBQ	0.0205	1.08	1
11031	12378-PeCDD	40321-76-4	0.312	JB	0.0275	5.40	1
11031	123478-HxCDD	39227-28-6	0.156	JB	0.0224	5.40	1
11031	123678-HxCDD	57653-85-7	0.135	JB	0.0216	5.40	1
11031	123789-HxCDD	19408-74-3	0.162	JB	0.0206	5.40	1
11031	1234678-HpCDD	35822-46-9	0.334	JB	0.0238	5.40	1
11031	OCDD	3268-87-9	0.627	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.137	JB	0.0200	1.08	1
11031	12378-PeCDF	57117-41-6	0.391	JB	0.0157	5.40	1
11031	23478-PeCDF	57117-31-4	0.353	JB	0.0165	5.40	1
11031	123478-HxCDF	70648-26-9	0.285	JBQ	0.0346	5.40	1
11031	123678-HxCDF	57117-44-9	0.236	JB	0.0257	5.40	1
11031	123789-HxCDF	72918-21-9	0.205	JBQ	0.0244	5.40	1
11031	234678-HxCDF	60851-34-5	0.156	JB	0.0195	5.40	1
11031	1234678-HpCDF	67562-39-4	0.237	JB	0.0139	5.40	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0173	5.40	1
11031	OCDF	39001-02-0	0.308	JBQ	0.0276	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0439 JQ	0.0251	1.08	1
11031	12378-PeCDD	40321-76-4	0.142 JQ	0.0260	5.39	1
11031	123478-HxCDD	39227-28-6	0.0475 JB	0.0213	5.39	1
11031	123678-HxCDD	57653-85-7	0.0751 JBQ	0.0222	5.39	1
11031	123789-HxCDD	19408-74-3	0.0631 JBQ	0.0212	5.39	1
11031	1234678-HpCDD	35822-46-9	0.297 JB	0.0223	5.39	1
11031	OCDD	3268-87-9	0.704 JB	0.0277	10.8	1
11031	2378-TCDF	51207-31-9	0.0507 JQ	0.0194	1.08	1
11031	12378-PeCDF	57117-41-6	0.130 JBQ	0.0124	5.39	1
11031	23478-PeCDF	57117-31-4	0.132 JBQ	0.0128	5.39	1
11031	123478-HxCDF	70648-26-9	0.0805 JB	0.0130	5.39	1
11031	123678-HxCDF	57117-44-9	0.0425 JB	0.0111	5.39	1
11031	123789-HxCDF	72918-21-9	0.0553 JBQ	0.0158	5.39	1
11031	234678-HxCDF	60851-34-5	0.0793 JB	0.0123	5.39	1
11031	1234678-HpCDF	67562-39-4	0.0947 JB	0.00898	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0393 J	0.0194	5.39	1
11031	OCDF	39001-02-0	0.233 JBQ	0.0421	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/05/2011 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0198 U	0.0198	1.10	1
11031	12378-PeCDD	40321-76-4	0.0958 JBQ	0.0247	5.48	1
11031	123478-HxCDD	39227-28-6	0.0461 JBQ	0.0175	5.48	1
11031	123678-HxCDD	57653-85-7	0.0523 JBQ	0.0178	5.48	1
11031	123789-HxCDD	19408-74-3	0.0465 JB	0.0182	5.48	1
11031	1234678-HpCDD	35822-46-9	0.248 JBQ	0.0217	5.48	1
11031	OCDD	3268-87-9	0.509 JB	0.0258	11.0	1
11031	2378-TCDF	51207-31-9	0.0269 JB	0.0178	1.10	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.0137	5.48	1
11031	23478-PeCDF	57117-31-4	0.114 JBQ	0.0142	5.48	1
11031	123478-HxCDF	70648-26-9	0.0940 JBQ	0.0145	5.48	1
11031	123678-HxCDF	57117-44-9	0.0644 JBQ	0.0131	5.48	1
11031	123789-HxCDF	72918-21-9	0.0482 JBQ	0.0151	5.48	1
11031	234678-HxCDF	60851-34-5	0.0588 JB	0.0121	5.48	1
11031	1234678-HpCDF	67562-39-4	0.106 JB	0.00919	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0557 JBQ	0.0137	5.48	1
11031	OCDF	39001-02-0	0.158 JBQ	0.0247	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 15:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835								
2378-TCDD	0.0738 J	0.0256	1.00	ng/kg	94		67-158		
12378-PeCDD	0.349 J	0.0297	5.00	ng/kg	91		70-142		
123478-HxCDD	0.147 J	0.0239	5.00	ng/kg	88		70-164		
123678-HxCDD	0.124 J	0.0230	5.00	ng/kg	91		76-134		
123789-HxCDD	0.145 J	0.0233	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.286 J	0.0210	5.00	ng/kg	93		70-140		
OCDD	0.418 J	0.0269	10.0	ng/kg	91		78-144		
2378-TCDF	0.0617 J	0.0236	1.00	ng/kg	93		75-158		
12378-PeCDF	0.328 J	0.0165	5.00	ng/kg	88		80-134		
23478-PeCDF	0.295 J	0.0166	5.00	ng/kg	86		68-160		
123478-HxCDF	0.197 J	0.0257	5.00	ng/kg	90		72-134		
123678-HxCDF	0.216 J	0.0212	5.00	ng/kg	90		84-130		
123789-HxCDF	0.174 J	0.0210	5.00	ng/kg	94		78-130		
234678-HxCDF	0.159 J	0.0196	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.172 J	0.0113	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0917 J	0.0149	5.00	ng/kg	88		78-138		
OCDF	0.220 J	0.0265	10.0	ng/kg	91		63-170		
Batch number: 11307002	Sample number(s): 6446834								
2378-TCDD	0.0250 U	0.0250	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0263 U	0.0263	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0229 J	0.0182	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0323 J	0.0182	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0212 J	0.0186	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	102		70-140		
OCDD	0.412 J	0.0259	10.0	ng/kg	98		78-144		
2378-TCDF	0.0197 U	0.0197	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0304 J	0.0104	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0732 J	0.0110	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0245 J	0.0131	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0169 J	0.0110	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0396 J	0.0154	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0200 J	0.0127	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0783 J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0162 U	0.0162	5.00	ng/kg	101		78-138		
OCDF	0.185 J	0.0413	10.0	ng/kg	101		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835					BKG: P446810			
Moisture Content by 160.3						10.5	10.7	1	20
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835 UNSPK: 6446826								
2378-TCDD	97	94	67-158	2	25				
12378-PeCDD	91	93	70-142	4	25				
123478-HxCDD	90	92	70-164	4	25				
123678-HxCDD	89	91	76-134	2	25				
123789-HxCDD	99	96	64-162	2	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	92	89	78-144	2	25				
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	92	90	80-134	1	25				
23478-PeCDF	87	87	68-160	0	25				
123478-HxCDF	93	91	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	96	93	78-130	3	25				
234678-HxCDF	89	91	70-156	3	25				
1234678-HpCDF	85	85	82-122	1	25				
1234789-HpCDF	93	90	78-138	3	25				
OCDF	93	93	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11301002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446825	82	71	52	64	74	70
6446826	76	69	59	63	72	68
6446827	74	69	58	65	72	68
6446828	74	67	48	54	74	76
6446829	79	68	52	63	71	67
6446830	74	64	54	62	67	64
6446831	88	83	72	82	83	81
6446832	74	69	53	63	65	60
6446833	76	66	37	49	67	59
6446835	76	71	63	67	72	68
Blank	73	71	53	62	66	67
MS	74	69	58	65	72	68
MSD	74	67	48	54	74	76
OPR	83	72	42	55	73	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446825	81	73	73	84	85	84
6446826	82	71	70	81	78	81
6446827	84	70	70	82	80	78
6446828	71	74	70	77	80	78
6446829	87	71	68	80	84	83
6446830	80	69	63	76	78	77
6446831	110	80	73	95	93	96
6446832	84	64	64	83	75	73
6446833	64	61	59	77	74	76
6446835	86	67	64	83	78	79
Blank	80	69	66	79	77	77
MS	84	70	70	82	80	78
MSD	71	74	70	77	80	78
OPR	71	74	69	88	83	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446825	87	94	95	73	79
6446826	83	91	92	67	75
6446827	81	90	91	66	75
6446828	83	88	93	64	74
6446829	86	92	93	65	76
6446830	79	83	83	65	74
6446831	99	108	105	76	93
6446832	79	86	90	64	78
6446833	81	79	81	65	75
6446835	80	87	88	68	78
Blank	79	86	87	60	73
MS	81	90	91	66	75
MSD	83	88	93	64	74
OPR	90	96	94	67	81
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11307002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446834	84	82	79	93	82	73
Blank	65	65	64	76	67	64
OPR	71	66	63	79	67	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446834	118	67	58	85	89	90
Blank	102	55	46	69	74	78
OPR	107	50	42	73	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446834	87	91	90	86	97
Blank	75	78	75	64	75
OPR	81	81	78	68	80
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1272729 Sample# 0446825-35

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber																					
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X				X							HGL ASTM II WATER-DPTcrew

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/15/2011
Group Number: 1276467
SDG: DE286
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5DS-SB-1.8-2.8 Soil	6470165
SL-031-SA5DS-SB-4.0-5.0 Soil	6470166
SL-031-SA5DS-SB-9.0-10.0 Soil	6470167
SL-013-SA8S-SB-4.0-5.0 Soil	6470168

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.70	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.5	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The recovery for the sample surrogate is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistical window of 53-142%, the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.41	21.2	1
07914	Boron	7440-42-8	11.0		0.382	5.30	1
01650	Calcium	7440-70-2	4,180		2.65	21.2	1
01654	Iron	7439-89-6	24,900		2.77	21.2	1
01656	Lithium	7439-93-2	23.3		0.66	2.1	1
01657	Magnesium	7439-95-4	5,800		0.466	10.6	1
06958	Manganese	7439-96-5	331		0.0382	0.530	1
10145	Phosphorus	7723-14-0	615		0.371	10.6	1
01662	Potassium	7440-09-7	2,830		12.0	53.0	1
01667	Sodium	7440-23-5	85.6	J	6.31	106	1
07968	Strontium	7440-24-6	23.9		0.0265	0.530	1
06969	Tin	7440-31-5	2.93	J	0.339	10.6	1
06970	Titanium	7440-32-6	997		0.0753	1.06	1
10146	Zirconium	7440-67-7	8.84		0.488	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0777	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.92		0.0840	0.420	2
06126	Barium	7440-39-3	87.8		0.111	0.420	2
06127	Beryllium	7440-41-7	0.529		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.214		0.0462	0.105	2
06131	Chromium	7440-47-3	34.5		0.126	0.420	2
06132	Cobalt	7440-48-4	8.13		0.0210	0.105	2
06133	Copper	7440-50-8	7.03		0.0840	0.420	2
06135	Lead	7439-92-1	6.38		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.493		0.0525	0.105	2
06139	Nickel	7440-02-0	12.2		0.105	0.420	2
06141	Selenium	7782-49-2	0.143	J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0381	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.206		0.0315	0.105	2
06148	Vanadium	7440-62-2	58.3		0.0231	0.105	2
06149	Zinc	7440-66-6	47.3		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.21	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.27	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 02:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 01:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 00:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 10:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 18:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113341026001A	12/02/2011 22:43	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 18:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 10:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 17:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 14:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,100		6.61	21.9	1
07914	Boron	7440-42-8	17.5		0.393	5.46	1
01650	Calcium	7440-70-2	5,480		2.73	21.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	38,200	5.71	43.7	2
01656	Lithium	7439-93-2	39.9	0.68	2.2	1
01657	Magnesium	7439-95-4	9,430	0.481	10.9	1
06958	Manganese	7439-96-5	364	0.0393	0.546	1
10145	Phosphorus	7723-14-0	310	0.383	10.9	1
01662	Potassium	7440-09-7	4,740	12.4	54.6	1
01667	Sodium	7440-23-5	194	6.50	109	1
07968	Strontium	7440-24-6	36.0	0.0273	0.546	1
06969	Tin	7440-31-5	3.63 J	0.350	10.9	1
06970	Titanium	7440-32-6	1,540	0.0776	1.09	1
10146	Zirconium	7440-67-7	9.12	0.503	5.46	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104 J	0.0817	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.80	0.0883	0.442	2
06126	Barium	7440-39-3	124	0.117	0.442	2
06127	Beryllium	7440-41-7	0.815	0.0177	0.110	2
06128	Cadmium	7440-43-9	0.159	0.0486	0.110	2
06131	Chromium	7440-47-3	33.0	0.132	0.442	2
06132	Cobalt	7440-48-4	11.2	0.0221	0.110	2
06133	Copper	7440-50-8	16.7	0.0883	0.442	2
06135	Lead	7439-92-1	8.91	0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.371	0.0552	0.110	2
06139	Nickel	7440-02-0	21.9	0.110	0.442	2
06141	Selenium	7782-49-2	0.294 J	0.0640	0.442	2
06142	Silver	7440-22-4	0.0233 J	0.0157	0.110	2
06145	Thallium	7440-28-0	0.410	0.0331	0.110	2
06148	Vanadium	7440-62-2	65.5	0.0243	0.110	2
06149	Zinc	7440-66-6	75.7	0.618	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.29	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 02:55	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 02:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:17	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 11:38	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 10:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:45	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 18:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 14:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.43	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.80	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.91	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.83	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.85	J	0.73	1.8	1
10138	Pyrene	129-00-0	0.74	J	0.73	1.8	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,900		6.49	21.5	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	20.0		0.386	5.37	1
01650	Calcium	7440-70-2	6,370		2.68	21.5	1
01654	Iron	7439-89-6	44,600		5.60	42.9	2
01656	Lithium	7439-93-2	44.7		0.67	2.1	1
01657	Magnesium	7439-95-4	10,700		0.472	10.7	1
06958	Manganese	7439-96-5	285		0.0386	0.537	1
10145	Phosphorus	7723-14-0	503		0.376	10.7	1
01662	Potassium	7440-09-7	5,150		12.1	53.7	1
01667	Sodium	7440-23-5	198		6.39	107	1
07968	Strontium	7440-24-6	36.7		0.0268	0.537	1
06969	Tin	7440-31-5	3.11	J	0.343	10.7	1
06970	Titanium	7440-32-6	1,410		0.0762	1.07	1
10146	Zirconium	7440-67-7	7.69		0.494	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0802	U	0.0802	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.35		0.0867	0.433	2
06126	Barium	7440-39-3	114		0.115	0.433	2
06127	Beryllium	7440-41-7	0.762		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.174		0.0477	0.108	2
06131	Chromium	7440-47-3	31.3		0.130	0.433	2
06132	Cobalt	7440-48-4	11.4		0.0217	0.108	2
06133	Copper	7440-50-8	19.0		0.0850	0.425	2
06135	Lead	7439-92-1	8.86		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.149		0.0542	0.108	2
06139	Nickel	7440-02-0	21.4		0.108	0.433	2
06141	Selenium	7782-49-2	0.269	J	0.0628	0.433	2
06142	Silver	7440-22-4	0.0466	J	0.0154	0.108	2
06145	Thallium	7440-28-0	0.407		0.0325	0.108	2
06148	Vanadium	7440-62-2	59.4		0.0238	0.108	2
06149	Zinc	7440-66-6	82.6		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.32	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 03:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 02:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 11:42	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:51	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 19:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		6.40	21.2	1
07914	Boron	7440-42-8	10.1		0.381	5.29	1
01650	Calcium	7440-70-2	40,700		2.64	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,500		2.76	21.2	1
01656	Lithium	7439-93-2	26.0		0.66	2.1	1
01657	Magnesium	7439-95-4	5,360		0.465	10.6	1
06958	Manganese	7439-96-5	335		0.0381	0.529	1
10145	Phosphorus	7723-14-0	443		0.370	10.6	1
01662	Potassium	7440-09-7	2,560		12.0	52.9	1
01667	Sodium	7440-23-5	79.9	J	6.29	106	1
07968	Strontium	7440-24-6	38.5		0.0264	0.529	1
06969	Tin	7440-31-5	2.58	J	0.338	10.6	1
06970	Titanium	7440-32-6	918		0.0751	1.06	1
10146	Zirconium	7440-67-7	3.77	J	0.486	5.29	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0798	J	0.0783	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.25		0.0846	0.423	2
06126	Barium	7440-39-3	97.4		0.112	0.423	2
06127	Beryllium	7440-41-7	0.658		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.235		0.0465	0.106	2
06131	Chromium	7440-47-3	24.0		0.127	0.423	2
06132	Cobalt	7440-48-4	9.23		0.0212	0.106	2
06133	Copper	7440-50-8	11.3		0.0846	0.423	2
06135	Lead	7439-92-1	7.62		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.475		0.0529	0.106	2
06139	Nickel	7440-02-0	18.0		0.106	0.423	2
06141	Selenium	7782-49-2	0.182	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0203	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.295		0.0317	0.106	2
06148	Vanadium	7440-62-2	44.4		0.0233	0.106	2
06149	Zinc	7440-66-6	62.3		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 03:43	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 03:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/28/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:30	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 19:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 14:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11320SLJ026	Sample number(s): 6470165-6470168									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	93		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	112		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	71		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		72-119		
Batch number: 11320SLK026	Sample number(s): 6470165-6470168									
Aniline	170	U	170.	500	ug/kg	72		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170	U	170.	500	ug/kg	94		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		73-114		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	92		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	48		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	91		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	85		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	104		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		61-109		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	90		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	81		51-117		
Phenol	17	U	17.	170	ug/kg	88		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 113230004A	Sample number(s): 6470165-6470168									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113211026003A	Sample number(s): 6470165-6470168									
Antimony	0.0733	U	0.0733	0.198	mg/kg	62		40-227		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	95		83-111		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	95		84-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	96		83-111		
Chromium	0.119	U	0.119	0.396	mg/kg	103		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	96		85-114		
Lead	0.0101	U	0.0101	0.198	mg/kg	97		84-112		
Nickel	0.0990	U	0.0990	0.396	mg/kg	96		81-110		
Silver	0.0141	U	0.0141	0.0990	mg/kg	97		83-112		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	99		82-112		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		76-110		
Zinc	0.985	J	0.554	2.97	mg/kg	93		82-110		
Batch number: 113211026003B	Sample number(s): 6470165-6470168									
Selenium	0.0574	U	0.0574	0.396	mg/kg	97		79-110		
Batch number: 113211026003C	Sample number(s): 6470165-6470168									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	94		80-110		
Batch number: 113211026003D	Sample number(s): 6470165-6470168									
Barium	0.105	U	0.105	0.396	mg/kg	93		83-110		
Batch number: 113215708005	Sample number(s): 6470165-6470168									
Aluminum	8.93	J	5.82	19.2	mg/kg	76		40-127		
Boron	0.644	J	0.346	4.81	mg/kg	91		83-110		
Calcium	9.39	J	2.40	19.2	mg/kg	91		81-110		
Iron	3.43	J	2.51	19.2	mg/kg	81		47-129		
Lithium	0.60	U	0.60	1.9	mg/kg	102		80-120		
Magnesium	0.949	J	0.423	9.62	mg/kg	82		63-116		
Manganese	0.0365	J	0.0346	0.481	mg/kg	95		85-116		
Phosphorus	1.86	J	0.337	9.62	mg/kg	102		80-120		
Potassium	10.9	U	10.9	48.1	mg/kg	93		71-110		
Sodium	5.72	U	5.72	96.2	mg/kg	93		76-110		
Strontium	0.0596	J	0.0240	0.481	mg/kg	92		84-110		
Tin	1.53	J	0.308	9.62	mg/kg	90		86-120		
Titanium	0.0740	J	0.0683	0.962	mg/kg	84		80-120		
Zirconium	0.442	U	0.442	4.81	mg/kg	106		80-120		
Batch number: 113215711003	Sample number(s): 6470165-6470168									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		83-119		
Batch number: 113341026001A	Sample number(s): 6470165-6470168									
Copper	0.0777	U	0.0777	0.388	mg/kg	100		81-110		
Batch number: 11320621201A	Sample number(s): 6470165-6470168									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
Batch number: 11320621202A	Sample number(s): 6470165-6470168									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11332243201A	Sample number(s): 6470165-6470168									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11332039401A	Sample number(s): 6470165-6470168									
17a pH by 9045C						100		95-105		
Batch number: 11325162402B	Sample number(s): 6470165-6470168									
Moisture Content by 160.3						100		80-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11320SLJ026	Sample number(s): 6470165-6470168 UNSPK: P465418								
Acenaphthene	89	92	63-105	3	30				
Acenaphthylene	89	93	67-114	4	30				
Anthracene	94	94	73-115	1	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	77	97	58-142	23	30				
Benzo(b)fluoranthene	78	103	54-163	28	30				
Benzo(g,h,i)perylene	61	88	33-141	35*	30				
Benzo(k)fluoranthene	81	90	57-153	10	30				
Butylbenzylphthalate	129	111	57-173	14	30				
Di-n-butylphthalate	146	121	65-148	19	30				
Chrysene	95	92	67-123	2	30				
Dibenz(a,h)anthracene	73	96	22-133	27	30				
Diethylphthalate	128	120	70-136	6	30				
Dimethylphthalate	106	110	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	151	136	39-167	11	30				
Fluoranthene	112	101	51-149	9	30				
Fluorene	97	98	66-122	2	30				
Indeno(1,2,3-cd)pyrene	70	94	21-143	30	30				
1-Methylnaphthalene	86	85	72-123	2	30				
2-Methylnaphthalene	86	85	64-103	1	30				
Naphthalene	91	88	61-102	3	30				
N-Nitrosodimethylamine	102	86	48-113	18	30				
Di-n-octylphthalate	94	138	40-192	37*	30				
Phenanthrene	95	92	62-122	4	30				
Pyrene	89	85	51-131	4	30				
Batch number: 11320SLK026	Sample number(s): 6470165-6470168 UNSPK: P465418								
Aniline	78	62	18-116	22	30				
Benzidine	0*	18*	35-141	200*	30				
Benzoic acid	102	84	10-173	20	30				
Benzyl alcohol	96	83	67-115	14	30				
4-Bromophenyl-phenylether	107	89	67-129	18	30				
Carbazole	98	83	64-120	16	30				
4-Chloro-3-methylphenol	102	88	62-122	15	30				
4-Chloroaniline	55	48	13-107	12	30				
bis(2-Chloroethoxy)methane	98	83	75-104	16	30				
bis(2-Chloroethyl)ether	95	80	60-116	17	30				
bis(2-Chloroisopropyl)ether	93	78	55-142	18	30				
2-Chloronaphthalene	79	67	50-141	16	30				
2-Chlorophenol	101	86	73-121	16	30				
4-Chlorophenyl-phenylether	98	86	80-109	13	30				
Dibenzofuran	98	85	71-112	15	30				
1,2-Dichlorobenzene	94	80	66-108	16	30				
1,3-Dichlorobenzene	92	78	63-109	16	30				
1,4-Dichlorobenzene	90	77	58-108	16	30				
3,3'-Dichlorobenzidine	61	49	28-109	22	30				
2,4-Dichlorophenol	103	89	66-123	14	30				
2,4-Dimethylphenol	105	89	68-118	17	30				
3,5-Dimethylphenol	103	88	71-127	16	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4,6-Dinitro-2-methylphenol	97	82	11-126	16	30				
2,4-Dinitrophenol	80	73	20-143	10	30				
2,4-Dinitrotoluene	99	87	56-129	13	30				
2,6-Dinitrotoluene	103	89	69-123	14	30				
1,2-Diphenylhydrazine	113	95	71-129	18	30				
Hexachlorobenzene	107	87	77-114	20	30				
Hexachlorobutadiene	97	83	62-120	16	30				
Hexachlorocyclopentadiene	131	92	10-153	35*	30				
Hexachloroethane	93	76	57-109	19	30				
Isophorone	98	83	73-102	16	30				
2-Methylphenol	105	89	75-111	17	30				
4-Methylphenol	94	79	59-123	17	30				
2-Nitroaniline	99	86	67-125	14	30				
3-Nitroaniline	88	80	59-122	10	30				
4-Nitroaniline	79	63	41-109	23	30				
Nitrobenzene	95	81	57-125	16	30				
2-Nitrophenol	98	84	56-127	15	30				
4-Nitrophenol	89	76	37-129	17	30				
N-Nitroso-di-n-propylamine	90	75	60-116	18	30				
N-Nitrosodiphenylamine	110	90	71-122	20	30				
Pentachlorophenol	73	76	28-127	4	30				
Phenol	94	79	58-126	17	30				
1,2,4-Trichlorobenzene	96	79	72-115	19	30				
2,4,5-Trichlorophenol	100	86	58-129	15	30				
2,4,6-Trichlorophenol	103	90	56-134	14	30				
Batch number: 113230004A	Sample number(s): 6470165-6470168 UNSPK: 6470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113211026003A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Antimony	16*	13*	75-125	9	20	0.168 J	0.108 J	44* (1)	20
Arsenic	119	150*	75-125	10	20	4.59	4.39	5	20
Beryllium	88	108	75-125	14	20	0.494	0.492	0 (1)	20
Cadmium	111	114	75-125	5	20	0.200	0.145	32* (1)	20
Chromium	112	141*	75-125	7	20	32.2	31.6	2	20
Cobalt	106	116	75-125	10	20	7.60	6.23	20	20
Lead	118	134*	75-125	6	20	5.96	5.42	9	20
Nickel	125	140*	75-125	8	20	11.4	11.2	2	20
Silver	107	106	75-125	2	20	0.0356 J	0.0244 J	38* (1)	20
Thallium	111	103	75-125	3	20	0.192	0.170	12 (1)	20
Vanadium	142 (2)	183 (2)	75-125	6	20	54.5	54.1	1	20
Zinc	110 (2)	169 (2)	75-125	11	20	44.2	41.9	5	20
Batch number: 113211026003B	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Selenium	92	105	75-125	15	20	0.134 J	0.174 J	26* (1)	20
Batch number: 113211026003C	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Molybdenum	102	105	75-125	6	20	0.461	0.438	5 (1)	20
Batch number: 113211026003D	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Barium	62 (2)	141 (2)	75-125	9	20	82.0	63.9	25*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113215708005	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Aluminum	1462 (2)	1339 (2)	75-125	1	20	16,800	17,300	3	20
Boron	90	91	84-115	1	20	10.2	10.3	0 (1)	20
Calcium	215 (2)	238 (2)	75-125	2	20	3,910	4,000	2	20
Iron	135 (2)	269 (2)	75-125	1	20	23,200	23,500	1	20
Lithium	98	97	82-114	2	20	21.8	21.5	1	20
Magnesium	36 (2)	53 (2)	75-125	1	20	5,420	5,190	4	20
Manganese	148 (2)	118 (2)	75-125	4	20	309	329	6	20
Phosphorus	44 (2)	75 (2)	75-125	5	20	575	544	5	20
Potassium	103	126*	75-125	6	20	2,640	2,500	5	20
Sodium	97	95	75-125	1	20	80.0 J	82.5 J	3 (1)	20
Strontium	98	98	75-115	0	20	22.3	24.4	9	20
Tin	85	85	80-110	0	20	2.74 J	2.78 J	2 (1)	20
Titanium	374 (2)	331 (2)	75-125	3	20	931	974	5	20
Zirconium	94	92	81-110	2	20	8.25	10.1	20 (1)	20
Batch number: 113215711003	Sample number(s): 6470165-6470168 UNSPK: P473891 BKG: P473891								
Mercury	97	102	65-135	5	20	0.0085 J	0.0082 J	4 (1)	20
Batch number: 113341026001A	Sample number(s): 6470165-6470168 UNSPK: 6470168 BKG: 6470168								
Copper	106	110	75-125	2	20	10.5	10.9	4	20
Batch number: 11320621201A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
11a Anions by 300.0 - Fluoride	63*		80-120			1.1	1.6	39* (1)	20
Batch number: 11320621202A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11332243201A	Sample number(s): 6470165-6470168 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401A	Sample number(s): 6470165-6470168 BKG: P473895								
17a pH by 9045C						8.71	8.72	0	3
Batch number: 11325162402B	Sample number(s): 6470165-6470168 BKG: 6470165								
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11320SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6470165	136*	96	94
6470166	133*	91	93
6470167	131*	93	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Surrogate Quality Control

6470168	125	90	89
Blank	113	86	92
LCS	119	88	90
MS	126	84	80
MSD	123	86	84
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11320SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6470165	96	96	99	90	97	92
6470166	92	94	102	86	92	89
6470167	94	97	100	88	94	91
6470168	101	101	94	90	97	90
Blank	88	93	92	86	91	89
LCS	93	95	95	87	91	83
MS	99	101	100	93	98	91
MSD	87	89	92	81	88	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6470165	113	126*
6470166	96	108
6470167	108	116
6470168	95	107
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1276467 6470165-68

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-SS Sleeve			X	X						
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-SS Sleeve			X	X						
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/14/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Bailey	11-15-11 915	8767 9857 4950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/15/2011
Group Number: 1276469
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5DS-SB-1.8-2.8 Soil	6470172
SL-031-SA5DS-SB-4.0-5.0 Soil	6470173
SL-031-SA5DS-SB-9.0-10.0 Soil	6470174
SL-013-SA8S-SB-4.0-5.0 Soil	6470175

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0477 JQ	0.0424	1.04	1
11031	12378-PeCDD	40321-76-4	0.0570 J	0.0355	5.21	1
11031	123478-HxCDD	39227-28-6	0.0257 JBQ	0.0231	5.21	1
11031	123678-HxCDD	57653-85-7	0.204 JBQ	0.0241	5.21	1
11031	123789-HxCDD	19408-74-3	0.410 JB	0.0241	5.21	1
11031	1234678-HpCDD	35822-46-9	0.901 JB	0.0237	5.21	1
11031	OCDD	3268-87-9	4.74 JB	0.0219	10.4	1
11031	2378-TCDF	51207-31-9	0.0565 J	0.0426	1.04	1
11031	12378-PeCDF	57117-41-6	0.0775 JB	0.0198	5.21	1
11031	23478-PeCDF	57117-31-4	0.0966 JBQ	0.0197	5.21	1
11031	123478-HxCDF	70648-26-9	0.0173 U	0.0173	5.21	1
11031	123678-HxCDF	57117-44-9	0.0626 JB	0.0147	5.21	1
11031	123789-HxCDF	72918-21-9	0.354 JB	0.0188	5.21	1
11031	234678-HxCDF	60851-34-5	0.0647 JBQ	0.0141	5.21	1
11031	1234678-HpCDF	67562-39-4	0.164 JBQ	0.0101	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0264 JBQ	0.0143	5.21	1
11031	OCDF	39001-02-0	0.323 JB	0.0266	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 17:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0469 U	0.0469	1.07	1
11031	12378-PeCDD	40321-76-4	0.101 JQ	0.0339	5.36	1
11031	123478-HxCDD	39227-28-6	0.0269 U	0.0269	5.36	1
11031	123678-HxCDD	57653-85-7	0.250 JBQ	0.0280	5.36	1
11031	123789-HxCDD	19408-74-3	0.174 JBQ	0.0279	5.36	1
11031	1234678-HpCDD	35822-46-9	0.865 JB	0.0281	5.36	1
11031	OCDD	3268-87-9	2.31 JB	0.0202	10.7	1
11031	2378-TCDF	51207-31-9	0.0333 U	0.0333	1.07	1
11031	12378-PeCDF	57117-41-6	0.0297 JBQ	0.0172	5.36	1
11031	23478-PeCDF	57117-31-4	0.0469 JBQ	0.0165	5.36	1
11031	123478-HxCDF	70648-26-9	0.0385 JBQ	0.0155	5.36	1
11031	123678-HxCDF	57117-44-9	0.0170 JBQ	0.0136	5.36	1
11031	123789-HxCDF	72918-21-9	0.0673 JBQ	0.0165	5.36	1
11031	234678-HxCDF	60851-34-5	0.0427 JBQ	0.0128	5.36	1
11031	1234678-HpCDF	67562-39-4	0.129 JB	0.0107	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0387 JBQ	0.0164	5.36	1
11031	OCDF	39001-02-0	0.179 JB	0.0281	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 18:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0449 U	0.0449	1.11	1
11031	12378-PeCDD	40321-76-4	0.0348 U	0.0348	5.57	1
11031	123478-HxCDD	39227-28-6	0.0458 JB	0.0257	5.57	1
11031	123678-HxCDD	57653-85-7	0.0913 JBQ	0.0262	5.57	1
11031	123789-HxCDD	19408-74-3	0.0672 JB	0.0262	5.57	1
11031	1234678-HpCDD	35822-46-9	0.450 JBQ	0.0249	5.57	1
11031	OCDD	3268-87-9	2.45 JB	0.0235	11.1	1
11031	2378-TCDF	51207-31-9	0.0330 U	0.0330	1.11	1
11031	12378-PeCDF	57117-41-6	0.0519 JB	0.0170	5.57	1
11031	23478-PeCDF	57117-31-4	0.0422 JB	0.0164	5.57	1
11031	123478-HxCDF	70648-26-9	0.0401 JBQ	0.0143	5.57	1
11031	123678-HxCDF	57117-44-9	0.0350 JBQ	0.0127	5.57	1
11031	123789-HxCDF	72918-21-9	0.0350 JBQ	0.0148	5.57	1
11031	234678-HxCDF	60851-34-5	0.0548 JB	0.0117	5.57	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.0115	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0445 JBQ	0.0173	5.57	1
11031	OCDF	39001-02-0	0.229 JB	0.0324	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 19:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444	U	0.0444	1.07	1
11031	12378-PeCDD	40321-76-4	0.0309	U	0.0309	5.35	1
11031	123478-HxCDD	39227-28-6	0.0213	U	0.0213	5.35	1
11031	123678-HxCDD	57653-85-7	0.0431	JBQ	0.0215	5.35	1
11031	123789-HxCDD	19408-74-3	0.0383	JB	0.0211	5.35	1
11031	1234678-HpCDD	35822-46-9	0.375	JB	0.0294	5.35	1
11031	OCDD	3268-87-9	1.47	JB	0.0227	10.7	1
11031	2378-TCDF	51207-31-9	0.0399	U	0.0399	1.07	1
11031	12378-PeCDF	57117-41-6	0.0176	U	0.0176	5.35	1
11031	23478-PeCDF	57117-31-4	0.0173	U	0.0173	5.35	1
11031	123478-HxCDF	70648-26-9	0.0533	JBQ	0.0138	5.35	1
11031	123678-HxCDF	57117-44-9	0.0159	JBQ	0.0128	5.35	1
11031	123789-HxCDF	72918-21-9	0.0524	JBQ	0.0148	5.35	1
11031	234678-HxCDF	60851-34-5	0.0400	JBQ	0.0117	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0864	JBQ	0.0100	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0659	JBQ	0.0150	5.35	1
11031	OCDF	39001-02-0	0.223	JBQ	0.0379	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 19:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276469
Reported: 11/30/11 at 12:50 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11325162402B	Sample number(s): 6470172-6470175								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6470172-6470175								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11325162402B	Sample number(s): 6470172-6470175					BKG: P470165			
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276469
Reported: 11/30/11 at 12:50 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6470172	65	75	60	68	73	65
6470173	72	80	68	78	83	75
6470174	70	81	64	74	81	74
6470175	69	78	66	73	79	72
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6470172	80	67	71	77	77	75
6470173	94	75	80	84	88	87
6470174	92	74	78	84	87	86
6470175	86	72	70	79	82	83
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6470172	73	77	86	65	80
6470173	84	90	98	69	87
6470174	85	89	97	69	87
6470175	81	84	90	69	83
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1276469 6470172-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-SS Sleeve			X	X						
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-SS Sleeve			X	X						
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/14/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Ruby	11-15-11 915	8767 9857 4950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/17/2011
Group Number: 1277028
SDG: DE287
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8S-SB-4.0-5.0 Soil	6473891
SL-005-SA8S-SB-3.5-4.5 Soil	6473892
SL-009-SA8S-SB-4.0-5.0 Soil	6473893
SL-009-SA8S-SB-7.0-8.0 Soil	6473894
SL-024-SA8S-SB-4.0-5.0 Soil	6473895
SL-024-SA8S-SB-7.0-8.0 Soil	6473896

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

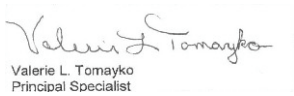
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.78	22.4	1
07914	Boron	7440-42-8	15.3		0.404	5.61	1
01650	Calcium	7440-70-2	172,000		14.0	112	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,700		2.93	22.4	1
01656	Lithium	7439-93-2	16.1		0.70	2.2	1
01657	Magnesium	7439-95-4	5,530		0.493	11.2	1
06958	Manganese	7439-96-5	382		0.0404	0.561	1
10145	Phosphorus	7723-14-0	282		0.392	11.2	1
01662	Potassium	7440-09-7	2,580		12.7	56.1	1
01667	Sodium	7440-23-5	242		6.67	112	1
07968	Strontium	7440-24-6	219		0.0280	0.561	1
06969	Tin	7440-31-5	2.48	J	0.359	11.2	1
06970	Titanium	7440-32-6	543		0.0796	1.12	1
10146	Zirconium	7440-67-7	3.96	J	0.516	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0830	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.29		0.0897	0.448	2
06126	Barium	7440-39-3	84.3		0.119	0.448	2
06127	Beryllium	7440-41-7	0.625		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.456		0.0493	0.112	2
06131	Chromium	7440-47-3	30.7		0.135	0.448	2
06132	Cobalt	7440-48-4	9.54		0.0224	0.112	2
06133	Copper	7440-50-8	15.1		0.0888	0.444	2
06135	Lead	7439-92-1	10.8		0.0114	0.224	2
06138	Molybdenum	7439-98-7	0.317		0.0561	0.112	2
06139	Nickel	7440-02-0	23.5		0.112	0.448	2
06141	Selenium	7782-49-2	0.201	J	0.0650	0.448	2
06142	Silver	7440-22-4	0.0159	U	0.0159	0.112	2
06145	Thallium	7440-28-0	0.244		0.0336	0.112	2
06148	Vanadium	7440-62-2	53.0		0.0247	0.112	2
06149	Zinc	7440-66-6	54.5		0.628	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0080	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.70	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 09:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 12:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:45	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:53	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 05:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 17:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.53	21.6	1
07914	Boron	7440-42-8	17.6		0.389	5.40	1
01650	Calcium	7440-70-2	161,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,800		2.82	21.6	1
01656	Lithium	7439-93-2	15.0		0.67	2.2	1
01657	Magnesium	7439-95-4	6,040		0.475	10.8	1
06958	Manganese	7439-96-5	305		0.0389	0.540	1
10145	Phosphorus	7723-14-0	349		0.378	10.8	1
01662	Potassium	7440-09-7	2,780		12.2	54.0	1
01667	Sodium	7440-23-5	1,030		6.42	108	1
07968	Strontium	7440-24-6	256		0.0270	0.540	1
06969	Tin	7440-31-5	2.21	J	0.345	10.8	1
06970	Titanium	7440-32-6	620		0.0766	1.08	1
10146	Zirconium	7440-67-7	4.75	J	0.496	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0854	J	0.0822	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.98		0.0889	0.444	2
06126	Barium	7440-39-3	114		0.118	0.444	2
06127	Beryllium	7440-41-7	0.568		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.240		0.0489	0.111	2
06131	Chromium	7440-47-3	28.5		0.133	0.444	2
06132	Cobalt	7440-48-4	8.89		0.0222	0.111	2
06133	Copper	7440-50-8	14.9		0.0880	0.440	2
06135	Lead	7439-92-1	9.50		0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.296		0.0556	0.111	2
06139	Nickel	7440-02-0	17.5		0.111	0.444	2
06141	Selenium	7782-49-2	0.181	J	0.0645	0.444	2
06142	Silver	7440-22-4	0.0158	U	0.0158	0.111	2
06145	Thallium	7440-28-0	0.220		0.0333	0.111	2
06148	Vanadium	7440-62-2	49.4		0.0244	0.111	2
06149	Zinc	7440-66-6	48.1		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0188	J	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.8		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	9.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 10:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 15:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:49	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:55	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 19:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 06:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 18:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		6.64	22.0	1
07914	Boron	7440-42-8	13.5		0.395	5.49	1
01650	Calcium	7440-70-2	79,200		5.49	43.9	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,000	2.86	22.0	1
01656	Lithium	7439-93-2	31.1	0.68	2.2	1
01657	Magnesium	7439-95-4	7,210	0.483	11.0	1
06958	Manganese	7439-96-5	271	0.0395	0.549	1
10145	Phosphorus	7723-14-0	461	0.384	11.0	1
01662	Potassium	7440-09-7	3,580	12.4	54.9	1
01667	Sodium	7440-23-5	180	6.53	110	1
07968	Strontium	7440-24-6	100	0.0274	0.549	1
06969	Tin	7440-31-5	3.04 J	0.351	11.0	1
06970	Titanium	7440-32-6	631	0.0779	1.10	1
10146	Zirconium	7440-67-7	6.59	0.505	5.49	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0836 U	0.0836	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.31	0.0904	0.452	2
06126	Barium	7440-39-3	67.4	0.120	0.452	2
06127	Beryllium	7440-41-7	0.634	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.355	0.0497	0.113	2
06131	Chromium	7440-47-3	30.0	0.136	0.452	2
06132	Cobalt	7440-48-4	9.27	0.0226	0.113	2
06133	Copper	7440-50-8	17.0	0.0904	0.452	2
06135	Lead	7439-92-1	9.07	0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.235	0.0565	0.113	2
06139	Nickel	7440-02-0	17.3	0.113	0.452	2
06141	Selenium	7782-49-2	0.250 J	0.0656	0.452	2
06142	Silver	7440-22-4	0.0229 J	0.0160	0.113	2
06145	Thallium	7440-28-0	0.293	0.0339	0.113	2
06148	Vanadium	7440-62-2	41.8	0.0249	0.113	2
06149	Zinc	7440-66-6	47.1	0.633	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.65	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 16:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/28/2011 17:03	John P Hook	2
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:15	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:57	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 06:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 19:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.52	21.5	1
07914	Boron	7440-42-8	10.2		0.388	5.39	1
01650	Calcium	7440-70-2	177,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	14,500		2.81	21.5	1
01656	Lithium	7439-93-2	15.7		0.67	2.2	1
01657	Magnesium	7439-95-4	4,280		0.474	10.8	1
06958	Manganese	7439-96-5	516		0.0388	0.539	1
10145	Phosphorus	7723-14-0	346		0.377	10.8	1
01662	Potassium	7440-09-7	2,270		12.2	53.9	1
01667	Sodium	7440-23-5	155		6.41	108	1
07968	Strontium	7440-24-6	166		0.0269	0.539	1
06969	Tin	7440-31-5	2.38	J	0.345	10.8	1
06970	Titanium	7440-32-6	374		0.0765	1.08	1
10146	Zirconium	7440-67-7	3.53	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774	U	0.0774	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.06		0.0837	0.419	2
06126	Barium	7440-39-3	61.2		0.111	0.419	2
06127	Beryllium	7440-41-7	0.586		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.322		0.0460	0.105	2
06131	Chromium	7440-47-3	26.6		0.126	0.419	2
06132	Cobalt	7440-48-4	8.41		0.0209	0.105	2
06133	Copper	7440-50-8	9.74		0.0862	0.431	2
06135	Lead	7439-92-1	8.28		0.0107	0.209	2
06138	Molybdenum	7439-98-7	0.246		0.0523	0.105	2
06139	Nickel	7440-02-0	15.3		0.105	0.419	2
06141	Selenium	7782-49-2	0.185	J	0.0607	0.419	2
06142	Silver	7440-22-4	0.0191	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.254		0.0314	0.105	2
06148	Vanadium	7440-62-2	37.1		0.0230	0.105	2
06149	Zinc	7440-66-6	42.3		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.75	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 20:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:57	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:59	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 19:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.60	21.8	1
07914	Boron	7440-42-8	11.8		0.393	5.45	1
01650	Calcium	7440-70-2	109,000		13.6	109	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,800		2.85	21.8	1
01656	Lithium	7439-93-2	21.5		0.68	2.2	1
01657	Magnesium	7439-95-4	5,150		0.480	10.9	1
06958	Manganese	7439-96-5	296		0.0393	0.545	1
10145	Phosphorus	7723-14-0	397		0.382	10.9	1
01662	Potassium	7440-09-7	2,800		12.3	54.5	1
01667	Sodium	7440-23-5	123		6.49	109	1
07968	Strontium	7440-24-6	128		0.0273	0.545	1
06969	Tin	7440-31-5	2.77	J	0.349	10.9	1
06970	Titanium	7440-32-6	518		0.0775	1.09	1
10146	Zirconium	7440-67-7	4.81	J	0.502	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0831	U	0.0831	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.01		0.0899	0.449	2
06126	Barium	7440-39-3	67.0		0.119	0.449	2
06127	Beryllium	7440-41-7	0.629		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.205		0.0494	0.112	2
06131	Chromium	7440-47-3	31.7		0.135	0.449	2
06132	Cobalt	7440-48-4	7.51		0.0225	0.112	2
06133	Copper	7440-50-8	10.1		0.0873	0.436	2
06135	Lead	7439-92-1	6.58		0.0115	0.225	2
06138	Molybdenum	7439-98-7	0.214		0.0562	0.112	2
06139	Nickel	7440-02-0	14.3		0.112	0.449	2
06141	Selenium	7782-49-2	0.192	J	0.0652	0.449	2
06142	Silver	7440-22-4	0.0160	U	0.0160	0.112	2
06145	Thallium	7440-28-0	0.267		0.0337	0.112	2
06148	Vanadium	7440-62-2	44.8		0.0247	0.112	2
06149	Zinc	7440-66-6	44.2		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.71	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 20:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 12:00	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 23:01	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 20:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		6.66	22.0	1
07914	Boron	7440-42-8	13.1		0.397	5.51	1
01650	Calcium	7440-70-2	92,400		5.51	44.1	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	30,500	5.75	44.1	2
01656	Lithium	7439-93-2	30.0	0.68	2.2	1
01657	Magnesium	7439-95-4	6,500	0.485	11.0	1
06958	Manganese	7439-96-5	246	0.0397	0.551	1
10145	Phosphorus	7723-14-0	462	0.385	11.0	1
01662	Potassium	7440-09-7	3,350	12.4	55.1	1
01667	Sodium	7440-23-5	123	6.55	110	1
07968	Strontium	7440-24-6	122	0.0275	0.551	1
06969	Tin	7440-31-5	2.93 J	0.352	11.0	1
06970	Titanium	7440-32-6	624	0.0782	1.10	1
10146	Zirconium	7440-67-7	5.54	0.507	5.51	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0969 J	0.0807	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.53	0.0873	0.436	2
06126	Barium	7440-39-3	94.0	0.116	0.436	2
06127	Beryllium	7440-41-7	0.844	0.0175	0.109	2
06128	Cadmium	7440-43-9	0.336	0.0480	0.109	2
06131	Chromium	7440-47-3	40.5	0.131	0.436	2
06132	Cobalt	7440-48-4	15.6	0.0218	0.109	2
06133	Copper	7440-50-8	13.1	0.0890	0.445	2
06135	Lead	7439-92-1	10.7	0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.352	0.0545	0.109	2
06139	Nickel	7440-02-0	23.4	0.109	0.436	2
06141	Selenium	7782-49-2	0.217 J	0.0633	0.436	2
06142	Silver	7440-22-4	0.0176 J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.409	0.0327	0.109	2
06148	Vanadium	7440-62-2	65.1	0.0240	0.109	2
06149	Zinc	7440-66-6	67.1	0.611	3.27	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106 J	0.0077	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 12:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 21:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 12:11	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 12:11	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 23:03	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 20:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11326SLE026	Sample number(s): 6473891-6473896									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6473891-6473896									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 113230004A	Sample number(s): 6473891-6473896									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113211026003A	Sample number(s): 6473891-6473896									
Antimony	0.0733	U	0.0733	0.198	mg/kg	62		40-227		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	95		83-111		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	95		84-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	96		83-111		
Chromium	0.119	U	0.119	0.396	mg/kg	103		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	96		85-114		
Lead	0.0101	U	0.0101	0.198	mg/kg	97		84-112		
Nickel	0.0990	U	0.0990	0.396	mg/kg	96		81-110		
Silver	0.0141	U	0.0141	0.0990	mg/kg	97		83-112		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	99		82-112		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		76-110		
Zinc	0.985	J	0.554	2.97	mg/kg	93		82-110		
Batch number: 113211026003B	Sample number(s): 6473891-6473896									
Selenium	0.0574	U	0.0574	0.396	mg/kg	97		79-110		
Batch number: 113211026003C	Sample number(s): 6473891-6473896									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	94		80-110		
Batch number: 113211026003D	Sample number(s): 6473891-6473896									
Barium	0.105	U	0.105	0.396	mg/kg	93		83-110		
Batch number: 113215708005	Sample number(s): 6473891-6473896									
Aluminum	8.93	J	5.82	19.2	mg/kg	76		40-127		
Boron	0.644	J	0.346	4.81	mg/kg	91		83-110		
Calcium	9.39	J	2.40	19.2	mg/kg	91		81-110		
Iron	3.43	J	2.51	19.2	mg/kg	81		47-129		
Lithium	0.60	U	0.60	1.9	mg/kg	102		80-120		
Magnesium	0.949	J	0.423	9.62	mg/kg	82		63-116		
Manganese	0.0365	J	0.0346	0.481	mg/kg	95		85-116		
Phosphorus	1.86	J	0.337	9.62	mg/kg	102		80-120		
Potassium	10.9	U	10.9	48.1	mg/kg	93		71-110		
Sodium	5.72	U	5.72	96.2	mg/kg	93		76-110		
Strontium	0.0596	J	0.0240	0.481	mg/kg	92		84-110		
Tin	1.53	J	0.308	9.62	mg/kg	90		86-120		
Titanium	0.0740	J	0.0683	0.962	mg/kg	84		80-120		
Zirconium	0.442	U	0.442	4.81	mg/kg	106		80-120		
Batch number: 113215711003	Sample number(s): 6473891-6473896									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		83-119		
Batch number: 113341026001A	Sample number(s): 6473891-6473896									
Copper	0.0777	U	0.0777	0.388	mg/kg	100		81-110		
Batch number: 11321373201A	Sample number(s): 6473891-6473896									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11321373202A	Sample number(s): 6473891-6473896									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
Batch number: 11332243201A	Sample number(s): 6473891-6473896									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11332039401A	Sample number(s): 6473891-6473895									
17a pH by 9045C						100		95-105		
Batch number: 11332039401B	Sample number(s): 6473896									
17a pH by 9045C						100		95-105		
Batch number: 11325162402B	Sample number(s): 6473891-6473896									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6473891-6473896 UNSPK: 6473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6473891-6473896 UNSPK: 6473891								
Acenaphthene	94	91	63-105	3	30				
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113230004A	Sample number(s): 6473891-6473896 UNSPK: P470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113211026003A	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Antimony	16*	13*	75-125	9	20	0.168 J	0.108 J	44* (1)	20
Arsenic	119	150*	75-125	10	20	4.59	4.39	5	20
Beryllium	88	108	75-125	14	20	0.494	0.492	0 (1)	20
Cadmium	111	114	75-125	5	20	0.200	0.145	32* (1)	20
Chromium	112	141*	75-125	7	20	32.2	31.6	2	20
Cobalt	106	116	75-125	10	20	7.60	6.23	20	20
Lead	118	134*	75-125	6	20	5.96	5.42	9	20
Nickel	125	140*	75-125	8	20	11.4	11.2	2	20
Silver	107	106	75-125	2	20	0.0356 J	0.0244 J	38* (1)	20
Thallium	111	103	75-125	3	20	0.192	0.170	12 (1)	20
Vanadium	142 (2)	183 (2)	75-125	6	20	54.5	54.1	1	20
Zinc	110 (2)	169 (2)	75-125	11	20	44.2	41.9	5	20
Batch number: 113211026003B	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Selenium	92	105	75-125	15	20	0.134 J	0.174 J	26* (1)	20
Batch number: 113211026003C	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Molybdenum	102	105	75-125	6	20	0.461	0.438	5 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113211026003D	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Barium	62 (2)	141 (2)	75-125	9	20	82.0	63.9	25*	20
Batch number: 113215708005	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Aluminum	1462 (2)	1339 (2)	75-125	1	20	16,800	17,300	3	20
Boron	90	91	84-115	1	20	10.2	10.3	0 (1)	20
Calcium	215 (2)	238 (2)	75-125	2	20	3,910	4,000	2	20
Iron	135 (2)	269 (2)	75-125	1	20	23,200	23,500	1	20
Lithium	98	97	82-114	2	20	21.8	21.5	1	20
Magnesium	36 (2)	53 (2)	75-125	1	20	5,420	5,190	4	20
Manganese	148 (2)	118 (2)	75-125	4	20	309	329	6	20
Phosphorus	44 (2)	75 (2)	75-125	5	20	575	544	5	20
Potassium	103	126*	75-125	6	20	2,640	2,500	5	20
Sodium	97	95	75-125	1	20	80.0 J	82.5 J	3 (1)	20
Strontium	98	98	75-115	0	20	22.3	24.4	9	20
Tin	85	85	80-110	0	20	2.74 J	2.78 J	2 (1)	20
Titanium	374 (2)	331 (2)	75-125	3	20	931	974	5	20
Zirconium	94	92	81-110	2	20	8.25	10.1	20 (1)	20
Batch number: 113215711003	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
Mercury	97	102	65-135	5	20	0.0085 J	0.0082 J	4 (1)	20
Batch number: 113341026001A	Sample number(s): 6473891-6473896 UNSPK: P470168 BKG: P470168								
Copper	106	110	75-125	2	20	10.5	10.9	4	20
Batch number: 11321373201A	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11321373202A	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
11a Anions by 300.0 - Fluoride	73*		80-120			4.4	4.3	3 (1)	20
Batch number: 11332243201A	Sample number(s): 6473891-6473896 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401A	Sample number(s): 6473891-6473895 BKG: 6473895								
17a pH by 9045C						8.71	8.72	0	3
Batch number: 11332039401B	Sample number(s): 6473896 BKG: P477491								
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11325162402B	Sample number(s): 6473891-6473896 BKG: P470165								
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6473891	72	75	73	69	69	65
6473892	70	72	63	66	67	63
6473893	90	93	72	82	83	82
6473894	92	93	79	80	82	81
6473895	95	96	74	81	86	84
6473896	97	99	87	85	89	84
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59
MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6473891	96	91	85
6473892	101	77	92
6473893	101	90	90
6473894	97	88	93
6473895	88	81	84
6473896	96	88	89
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6473891	136	146*
6473892	116	128*
6473893	103	109
6473894	116	118
6473895	105	112
6473896	106	117
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1277028 Sample# 6473891-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-SS Sleeve			X	X						
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-SS Sleeve			X	X						
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	11/16/2011 / 1630	LLI 11/17/11 0900		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
		8767 9857 4961		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/17/2011
Group Number: 1277029
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8S-SB-4.0-5.0 Soil	6473897
SL-005-SA8S-SB-3.5-4.5 Soil	6473898
SL-009-SA8S-SB-4.0-5.0 Soil	6473899
SL-009-SA8S-SB-7.0-8.0 Soil	6473900
SL-024-SA8S-SB-4.0-5.0 Soil	6473901
SL-024-SA8S-SB-7.0-8.0 Soil	6473902

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0606 U	0.0606	1.12	1
11031	12378-PeCDD	40321-76-4	0.0425 U	0.0425	5.62	1
11031	123478-HxCDD	39227-28-6	0.0298 JBQ	0.0210	5.62	1
11031	123678-HxCDD	57653-85-7	0.0331 JBQ	0.0223	5.62	1
11031	123789-HxCDD	19408-74-3	0.0478 JBQ	0.0234	5.62	1
11031	1234678-HpCDD	35822-46-9	0.348 JB	0.0239	5.62	1
11031	OCDD	3268-87-9	0.665 JB	0.0227	11.2	1
11031	2378-TCDF	51207-31-9	0.0401 U	0.0401	1.12	1
11031	12378-PeCDF	57117-41-6	0.0193 U	0.0193	5.62	1
11031	23478-PeCDF	57117-31-4	0.0590 JBQ	0.0178	5.62	1
11031	123478-HxCDF	70648-26-9	0.0394 JBQ	0.0167	5.62	1
11031	123678-HxCDF	57117-44-9	0.0425 JBQ	0.0143	5.62	1
11031	123789-HxCDF	72918-21-9	0.0361 JBQ	0.0184	5.62	1
11031	234678-HxCDF	60851-34-5	0.0204 JBQ	0.0127	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0733 JBQ	0.0111	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0171	5.62	1
11031	OCDF	39001-02-0	0.0860 JB	0.0378	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 20:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0502	J	0.0448	1.11	1
11031	12378-PeCDD	40321-76-4	0.0336	U	0.0336	5.53	1
11031	123478-HxCDD	39227-28-6	0.0214	U	0.0214	5.53	1
11031	123678-HxCDD	57653-85-7	0.0238	JBQ	0.0228	5.53	1
11031	123789-HxCDD	19408-74-3	0.0450	JBQ	0.0212	5.53	1
11031	1234678-HpCDD	35822-46-9	0.256	JBQ	0.0245	5.53	1
11031	OCDD	3268-87-9	0.479	JB	0.0201	11.1	1
11031	2378-TCDF	51207-31-9	0.0309	U	0.0309	1.11	1
11031	12378-PeCDF	57117-41-6	0.112	JB	0.0187	5.53	1
11031	23478-PeCDF	57117-31-4	0.124	JBQ	0.0181	5.53	1
11031	123478-HxCDF	70648-26-9	0.0612	JBQ	0.0167	5.53	1
11031	123678-HxCDF	57117-44-9	0.0489	JBQ	0.0136	5.53	1
11031	123789-HxCDF	72918-21-9	0.0553	JB	0.0159	5.53	1
11031	234678-HxCDF	60851-34-5	0.0651	JB	0.0128	5.53	1
11031	1234678-HpCDF	67562-39-4	0.106	JB	0.00932	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0196	JB	0.0159	5.53	1
11031	OCDF	39001-02-0	0.150	JB	0.0341	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	101	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	110	23 - 140
13C12-OCDD	121	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 21:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0695 JQ	0.0392	1.09	1
11031	12378-PeCDD	40321-76-4	0.0806 JQ	0.0320	5.45	1
11031	123478-HxCDD	39227-28-6	0.0457 JB	0.0263	5.45	1
11031	123678-HxCDD	57653-85-7	0.0370 JBQ	0.0251	5.45	1
11031	123789-HxCDD	19408-74-3	0.0817 JB	0.0249	5.45	1
11031	1234678-HpCDD	35822-46-9	0.256 JB	0.0223	5.45	1
11031	OCDD	3268-87-9	0.706 JBQ	0.0204	10.9	1
11031	2378-TCDF	51207-31-9	0.0375 JQ	0.0305	1.09	1
11031	12378-PeCDF	57117-41-6	0.0721 JBQ	0.0161	5.45	1
11031	23478-PeCDF	57117-31-4	0.0796 JB	0.0155	5.45	1
11031	123478-HxCDF	70648-26-9	0.0610 JB	0.0183	5.45	1
11031	123678-HxCDF	57117-44-9	0.0734 JB	0.0166	5.45	1
11031	123789-HxCDF	72918-21-9	0.108 JB	0.0174	5.45	1
11031	234678-HxCDF	60851-34-5	0.0889 JBQ	0.0160	5.45	1
11031	1234678-HpCDF	67562-39-4	0.102 JB	0.0112	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0188	5.45	1
11031	OCDF	39001-02-0	0.128 JB	0.0328	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 12:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0447	U	0.0447	1.07	1
11031	12378-PeCDD	40321-76-4	0.0334	U	0.0334	5.35	1
11031	123478-HxCDD	39227-28-6	0.0311	JB	0.0202	5.35	1
11031	123678-HxCDD	57653-85-7	0.0305	JB	0.0210	5.35	1
11031	123789-HxCDD	19408-74-3	0.0524	JB	0.0202	5.35	1
11031	1234678-HpCDD	35822-46-9	0.298	JB	0.0247	5.35	1
11031	OCDD	3268-87-9	0.646	JB	0.0195	10.7	1
11031	2378-TCDF	51207-31-9	0.0317	U	0.0317	1.07	1
11031	12378-PeCDF	57117-41-6	0.0378	JBQ	0.0175	5.35	1
11031	23478-PeCDF	57117-31-4	0.0493	JB	0.0158	5.35	1
11031	123478-HxCDF	70648-26-9	0.0320	JBQ	0.0159	5.35	1
11031	123678-HxCDF	57117-44-9	0.0297	JBQ	0.0141	5.35	1
11031	123789-HxCDF	72918-21-9	0.0332	JBQ	0.0160	5.35	1
11031	234678-HxCDF	60851-34-5	0.0535	JBQ	0.0136	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0934	JB	0.0111	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0277	JB	0.0160	5.35	1
11031	OCDF	39001-02-0	0.104	JB	0.0362	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	1.10	1
11031	12378-PeCDD	40321-76-4	0.0315 U	0.0315	5.52	1
11031	123478-HxCDD	39227-28-6	0.0239 JBQ	0.0231	5.52	1
11031	123678-HxCDD	57653-85-7	0.0333 JB	0.0226	5.52	1
11031	123789-HxCDD	19408-74-3	0.0230 U	0.0230	5.52	1
11031	1234678-HpCDD	35822-46-9	0.296 JBQ	0.0198	5.52	1
11031	OCDD	3268-87-9	1.01 JB	0.0211	11.0	1
11031	2378-TCDF	51207-31-9	0.0300 U	0.0300	1.10	1
11031	12378-PeCDF	57117-41-6	0.0207 JB	0.0152	5.52	1
11031	23478-PeCDF	57117-31-4	0.0530 JB	0.0147	5.52	1
11031	123478-HxCDF	70648-26-9	0.0503 JBQ	0.0128	5.52	1
11031	123678-HxCDF	57117-44-9	0.0331 JBQ	0.0108	5.52	1
11031	123789-HxCDF	72918-21-9	0.0303 JBQ	0.0140	5.52	1
11031	234678-HxCDF	60851-34-5	0.0263 JB	0.0115	5.52	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.00955	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0211 JBQ	0.0155	5.52	1
11031	OCDF	39001-02-0	0.174 JBQ	0.0308	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 14:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0388 U	0.0388	1.12	1
11031	12378-PeCDD	40321-76-4	0.0320 U	0.0320	5.62	1
11031	123478-HxCDD	39227-28-6	0.0325 JB	0.0221	5.62	1
11031	123678-HxCDD	57653-85-7	0.0358 JBQ	0.0229	5.62	1
11031	123789-HxCDD	19408-74-3	0.0409 JBQ	0.0237	5.62	1
11031	1234678-HpCDD	35822-46-9	0.307 JBQ	0.0258	5.62	1
11031	OCDD	3268-87-9	0.810 JB	0.0197	11.2	1
11031	2378-TCDF	51207-31-9	0.0302 U	0.0302	1.12	1
11031	12378-PeCDF	57117-41-6	0.0144 U	0.0144	5.62	1
11031	23478-PeCDF	57117-31-4	0.0338 JBQ	0.0144	5.62	1
11031	123478-HxCDF	70648-26-9	0.0260 JBQ	0.0143	5.62	1
11031	123678-HxCDF	57117-44-9	0.0119 U	0.0119	5.62	1
11031	123789-HxCDF	72918-21-9	0.0164 JBQ	0.0147	5.62	1
11031	234678-HxCDF	60851-34-5	0.0333 JB	0.0124	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0804 JBQ	0.00745	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0496 JBQ	0.0124	5.62	1
11031	OCDF	39001-02-0	0.196 JB	0.0315	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 15:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277029
Reported: 12/01/11 at 01:15 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11325162402B	Sample number(s): 6473897-6473902								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6473897-6473902								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11325162402B	Sample number(s): 6473897-6473902					BKG: P470165			
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277029
Reported: 12/01/11 at 01:15 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6473897	61	74	59	69	76	67
6473898	83	88	66	83	87	83
6473899	71	80	64	75	74	81
6473900	69	82	70	76	83	83
6473901	71	77	67	76	73	73
6473902	71	79	67	78	76	76
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6473897	88	70	73	77	83	88
6473898	112	84	89	95	97	101
6473899	100	74	78	82	80	86
6473900	93	81	82	81	83	84
6473901	95	73	78	79	79	84
6473902	102	75	82	83	81	86
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6473897	82	87	92	61	76
6473898	99	110	121	78	98
6473899	83	93	98	71	86
6473900	82	87	95	70	83
6473901	80	87	97	71	83
6473902	83	93	102	70	87
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1277029 Sample# 6473897-902

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING** | **Primary**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-SS Sleeve			X	X						
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-SS Sleeve			X	X						
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/16/2011 / 1630	LLI 11/17/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 4961	

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/18/2011
Group Number: 1277303
SDG: DE288
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA8S-SB-4.0-5.0 Soil	6475866
SL-010-SA8S-SB-8.5-9.5 Soil	6475867
SL-008-SA8S-SB-2.0-3.0 Soil	6475868
SL-011-SA8S-SB-4.0-5.0 Soil	6475869
EB-SA8S-SB-111711 Water	6475870

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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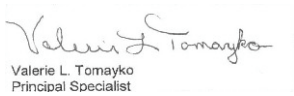
Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		6.75	22.3	1
07914	Boron	7440-42-8	5.00	J	0.402	5.58	1
01650	Calcium	7440-70-2	66,300		5.58	44.6	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	43,200		5.83	44.6	2
01656	Lithium	7439-93-2	34.1		0.69	2.2	1
01657	Magnesium	7439-95-4	9,100		0.491	11.2	1
06958	Manganese	7439-96-5	303		0.0402	0.558	1
10145	Phosphorus	7723-14-0	374		0.391	11.2	1
01662	Potassium	7440-09-7	3,920		12.6	55.8	1
01667	Sodium	7440-23-5	136		6.64	112	1
07968	Strontium	7440-24-6	93.1		0.0279	0.558	1
06969	Tin	7440-31-5	3.58	J	0.357	11.2	1
06970	Titanium	7440-32-6	1,080		0.0792	1.12	1
10146	Zirconium	7440-67-7	7.71		0.513	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.196	J	0.0826	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4		0.0893	0.446	2
06126	Barium	7440-39-3	101		0.118	0.446	2
06127	Beryllium	7440-41-7	0.968		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.196		0.0491	0.112	2
06131	Chromium	7440-47-3	30.3		0.134	0.446	2
06132	Cobalt	7440-48-4	12.8		0.0223	0.112	2
06133	Copper	7440-50-8	36.9		0.0893	0.446	2
06135	Lead	7439-92-1	16.7		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.595		0.0558	0.112	2
06139	Nickel	7440-02-0	25.0		0.112	0.446	2
06141	Selenium	7782-49-2	0.508		0.0647	0.446	2
06142	Silver	7440-22-4	0.0281	J	0.0158	0.112	2
06145	Thallium	7440-28-0	0.448		0.0335	0.112	2
06148	Vanadium	7440-62-2	63.3		0.0246	0.112	2
06149	Zinc	7440-66-6	83.1		0.625	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.65	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 12:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 21:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:18	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:11	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/26/2011 10:11	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:12	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 18:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 18:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		6.70	22.2	1
07914	Boron	7440-42-8	5.58		0.399	5.54	1
01650	Calcium	7440-70-2	70,600		5.54	44.3	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,100	2.89	22.2	1
01656	Lithium	7439-93-2	28.1	0.69	2.2	1
01657	Magnesium	7439-95-4	7,610	0.487	11.1	1
06958	Manganese	7439-96-5	275	0.0399	0.554	1
10145	Phosphorus	7723-14-0	582	0.388	11.1	1
01662	Potassium	7440-09-7	3,190	12.5	55.4	1
01667	Sodium	7440-23-5	148	6.59	111	1
07968	Strontium	7440-24-6	101	0.0277	0.554	1
06969	Tin	7440-31-5	3.72 J	0.354	11.1	1
06970	Titanium	7440-32-6	649	0.0787	1.11	1
10146	Zirconium	7440-67-7	8.05	0.510	5.54	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182 J	0.0820	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	16.0	0.0886	0.443	2
06126	Barium	7440-39-3	111	0.117	0.443	2
06127	Beryllium	7440-41-7	0.964	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.256	0.0487	0.111	2
06131	Chromium	7440-47-3	29.8	0.133	0.443	2
06132	Cobalt	7440-48-4	13.5	0.0222	0.111	2
06133	Copper	7440-50-8	37.9	0.0886	0.443	2
06135	Lead	7439-92-1	20.7	0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.568	0.0554	0.111	2
06139	Nickel	7440-02-0	25.2	0.111	0.443	2
06141	Selenium	7782-49-2	0.234 J	0.0643	0.443	2
06142	Silver	7440-22-4	0.0345 J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.389	0.0332	0.111	2
06148	Vanadium	7440-62-2	58.7	0.0244	0.111	2
06149	Zinc	7440-66-6	114	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080 U	0.0080	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 22:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:36	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:25	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:30	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 19:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 18:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	10	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.50	21.5	1
07914	Boron	7440-42-8	7.42		0.387	5.38	1
01650	Calcium	7440-70-2	172,000		13.4	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,000		2.81	21.5	1
01656	Lithium	7439-93-2	9.8		0.67	2.2	1
01657	Magnesium	7439-95-4	4,330		0.473	10.8	1
06958	Manganese	7439-96-5	325		0.0387	0.538	1
10145	Phosphorus	7723-14-0	328		0.376	10.8	1
01662	Potassium	7440-09-7	2,160		12.1	53.8	1
01667	Sodium	7440-23-5	128		6.40	108	1
07968	Strontium	7440-24-6	212		0.0269	0.538	1
06969	Tin	7440-31-5	2.68	J	0.344	10.8	1
06970	Titanium	7440-32-6	478		0.0763	1.08	1
10146	Zirconium	7440-67-7	5.48		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0788	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.82		0.0852	0.426	2
06126	Barium	7440-39-3	60.0		0.113	0.426	2
06127	Beryllium	7440-41-7	0.490		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.285		0.0468	0.106	2
06131	Chromium	7440-47-3	28.8		0.128	0.426	2
06132	Cobalt	7440-48-4	5.53		0.0213	0.106	2
06133	Copper	7440-50-8	10.1		0.0852	0.426	2
06135	Lead	7439-92-1	5.98		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.282		0.0532	0.106	2
06139	Nickel	7440-02-0	11.7		0.106	0.426	2
06141	Selenium	7782-49-2	0.103	J	0.0617	0.426	2
06142	Silver	7440-22-4	0.0151	U	0.0151	0.106	2
06145	Thallium	7440-28-0	0.156		0.0319	0.106	2
06148	Vanadium	7440-62-2	36.5		0.0234	0.106	2
06149	Zinc	7440-66-6	34.7		0.596	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:30	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 22:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:55	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:32	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:31	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 20:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/02/2011 13:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.66	22.0	1
07914	Boron	7440-42-8	6.87		0.396	5.51	1
01650	Calcium	7440-70-2	129,000		13.8	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	15,100		2.87	22.0	1
01656	Lithium	7439-93-2	11.4		0.68	2.2	1
01657	Magnesium	7439-95-4	4,450		0.485	11.0	1
06958	Manganese	7439-96-5	302		0.0396	0.551	1
10145	Phosphorus	7723-14-0	321		0.385	11.0	1
01662	Potassium	7440-09-7	2,090		12.4	55.1	1
01667	Sodium	7440-23-5	115		6.55	110	1
07968	Strontium	7440-24-6	160		0.0275	0.551	1
06969	Tin	7440-31-5	2.92	J	0.352	11.0	1
06970	Titanium	7440-32-6	569		0.0782	1.10	1
10146	Zirconium	7440-67-7	5.16	J	0.507	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.01		0.0864	0.432	2
06126	Barium	7440-39-3	72.8		0.114	0.432	2
06127	Beryllium	7440-41-7	0.630		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.222		0.0475	0.108	2
06131	Chromium	7440-47-3	38.9		0.130	0.432	2
06132	Cobalt	7440-48-4	7.99		0.0216	0.108	2
06133	Copper	7440-50-8	10.9		0.0864	0.432	2
06135	Lead	7439-92-1	6.52		0.0110	0.216	2
06138	Molybdenum	7439-98-7	0.283		0.0540	0.108	2
06139	Nickel	7440-02-0	15.7		0.108	0.432	2
06141	Selenium	7782-49-2	0.0717	J	0.0626	0.432	2
06142	Silver	7440-22-4	0.0153	U	0.0153	0.108	2
06145	Thallium	7440-28-0	0.248		0.0324	0.108	2
06148	Vanadium	7440-62-2	53.9		0.0238	0.108	2
06149	Zinc	7440-66-6	45.9		0.605	3.24	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 23:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 06:13	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:40	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:36	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:33	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 20:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 18:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	6	1
04678	Benzidine	92-87-5	22	U	22	66	1
04678	Benzoic acid	65-85-0	7	U	7	17	1
04678	Benzyl alcohol	100-51-6	6	U	6	17	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6	1
04678	Carbazole	86-74-8	1	U	1	6	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6	1
04678	4-Chloroaniline	106-47-8	1	U	1	6	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6	1
04678	2-Chlorophenol	95-57-8	1	U	1	6	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6	1
04678	Dibenzofuran	132-64-9	1	U	1	6	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6	1
04678	Hexachlorobenzene	118-74-1	1	U	1	6	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6	1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
04678	Hexachloroethane	67-72-1	1	U	1	6	1
04678	Isophorone	78-59-1	1	U	1	6	1
04678	2-Methylphenol	95-48-7	1	U	1	6	1
04678	4-Methylphenol	106-44-5	2	U	2	6	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	6	1
04678	3-Nitroaniline	99-09-2	1	U	1	6	1
04678	4-Nitroaniline	100-01-6	1	U	1	6	1
04678	Nitrobenzene	98-95-3	1	U	1	6	1
04678	2-Nitrophenol	88-75-5	1	U	1	6	1
04678	4-Nitrophenol	100-02-7	11	U	11	33	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	17	1
04678	Phenol	108-95-2	1	U	1	6	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053	1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.31	J	0.053	1.1	1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053	1
10137	Diethylphthalate	84-66-2	0.066	J	0.053	1.1	1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.12	J	0.053	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053	1
10137	2-Methylnaphthalene	91-57-6	0.012	J	0.011	0.053	1
10137	Naphthalene	91-20-3	0.066		0.032	0.053	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053	1
10137	Di-n-octylphthalate	117-84-0	0.084	J	0.053	1.1	1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.053	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .083 ug/l. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to limited sample volume.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51	1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51	1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51	1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801 U	0.0801	0.200	1
08014	Boron	7440-42-8	0.0042 J	0.0022	0.0500	1
01750	Calcium	7440-70-2	0.0705 U	0.0705	0.200	1
01754	Iron	7439-89-6	0.0141 U	0.0141	0.200	1
01756	Lithium	7439-93-2	0.0076 U	0.0076	0.0200	1
01757	Magnesium	7439-95-4	0.0067 U	0.0067	0.100	1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050	1
10143	Phosphorus	7723-14-0	0.0047 U	0.0047	0.100	1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500	1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00	1
08068	Strontium	7440-24-6	0.00023 J	0.00022	0.0050	1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200	1
07070	Titanium	7440-32-6	0.00046 U	0.00046	0.0100	1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020	1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.6	0.010	0.010	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11327WAA026	12/10/2011 08:14	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11323WAU026	11/30/2011 04:27	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11327WAA026	11/23/2011 18:00	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11323WAU026	11/20/2011 10:15	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113250021A	11/30/2011 08:05	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113250021A	11/21/2011 21:20	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
08014	Boron	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01754	Iron	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
10143	Phosphorus	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
08068	Strontium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07069	Tin	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	113261848002	11/28/2011 13:40	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
06024	Antimony	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113266050003D	11/29/2011 17:35	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113266050003C	11/29/2011 17:35	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	113266050003B	11/29/2011 17:35	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113265713007	11/23/2011 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113261848002	11/23/2011 09:52	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113266050003	11/23/2011 09:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113265713007	11/22/2011 18:41	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11333196602B	11/30/2011 02:34	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11322281101A	11/18/2011 12:16	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11322281401B	11/18/2011 11:45	Elyse P Brunstetter	1
00200	17b pH by 9040B	SW-846 9040B	1	11322020003A	11/18/2011 22:25	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11323WAU026	Sample number(s): 6475870									
Acenaphthene	0.010	U	0.010	0.050	ug/l	102	106	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	106	110	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	82	66-111	19	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	108	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	102	105	60-127	4	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	110	113	58-151	3	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	64	70	57-131	9	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	104	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	104	108	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	115	101	56-148	13	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	103	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	80	85	55-134	7	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	74	66	37-148	11	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	104	107	40-119	3	30
Bis(2-Ethylhexyl)phthalate	0.083	J	0.050	1.0	ug/l	111	113	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	95	75-116	14	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	103	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	76	81	53-158	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	99	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	98	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	99	104	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	47	50	36-89	6	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	111	57-145	4	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	100	85	76-111	16	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	103	69-118	4	30
Batch number: 11326SLE026	Sample number(s): 6475866-6475869									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6475866-6475869									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11327WAA026	Sample number(s): 6475870									
Aniline	1	U	1.	5	ug/l	69	68	38-116	3	30
Benzidine	20	U	20.	60	ug/l	50	51	34-117	1	30
Benzoic acid	6	U	6.	15	ug/l	44	46	10-69	6	30
Benzyl alcohol	5	U	5.	15	ug/l	85	83	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	100	75-115	7	30
Carbazole	1	U	1.	5	ug/l	97	103	75-120	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	96	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	57	53	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	93	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	92	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	91	62-127	0	30
2-Chloronaphthalene	2	U	2.	5	ug/l	99	100	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	99	95	71-114	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	96	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	92	94	75-117	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	83	83	55-118	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	83	61-111	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	81	82	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	52	54	37-117	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	97	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	103	103	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	97	109	65-126	11	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	85	91	52-131	8	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	100	76-119	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	101	99	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	103	68-127	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	94	101	75-119	7	30
Hexachlorobutadiene	1	U	1.	5	ug/l	82	86	57-124	5	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	76	82	36-118	8	30
Hexachloroethane	1	U	1.	5	ug/l	79	80	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	96	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	93	93	58-110	1	30
4-Methylphenol	2	U	2.	5	ug/l	83	81	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	98	99	75-120	2	30
3-Nitroaniline	1	U	1.	5	ug/l	90	92	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	61	59	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	92	95	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	94	97	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	51	51	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	89	86	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	103	67-136	8	30
Pentachlorophenol	3	U	3.	15	ug/l	93	101	53-110	8	30
Phenol	1	U	1.	5	ug/l	55	52	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	88	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	101	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	76-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 113230004A	Sample number(s): 6475866-6475869									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113250021A	Sample number(s): 6475870									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	74	68	35-84	8	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	100	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 113241026002A	Sample number(s): 6475866-6475869									
Antimony	0.0718	U	0.0718	0.194	mg/kg	70		40-227		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	96		83-111		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	97		84-112		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	99		83-111		
Chromium	0.117	U	0.117	0.388	mg/kg	104		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	99		85-114		
Copper	0.0777	U	0.0777	0.388	mg/kg	99		81-110		
Lead	0.0099	U	0.0099	0.194	mg/kg	99		84-112		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	101		83-112		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	99		82-112		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	99		76-110		
Zinc	0.689	J	0.544	2.91	mg/kg	99		82-110		
Batch number: 113241026002B	Sample number(s): 6475866-6475869									
Selenium	0.0563	U	0.0563	0.388	mg/kg	99		79-110		
Batch number: 113241026002C	Sample number(s): 6475866-6475869									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	96		80-110		
Batch number: 113241026002D	Sample number(s): 6475866-6475869									
Barium	0.103	U	0.103	0.388	mg/kg	98		83-110		
Batch number: 113245708004	Sample number(s): 6475866-6475869									
Aluminum	5.93	U	5.93	19.6	mg/kg	79		40-127		
Boron	0.353	U	0.353	4.90	mg/kg	97		83-110		
Calcium	6.46	J	2.45	19.6	mg/kg	100		81-110		
Iron	3.25	J	2.56	19.6	mg/kg	84		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.95 J	0.431	9.80	mg/kg	85		63-116		
Manganese	0.0588 J	0.0353	0.490	mg/kg	97		85-116		
Phosphorus	1.31 J	0.343	9.80	mg/kg	102		80-120		
Potassium	11.1 U	11.1	49.0	mg/kg	96		71-110		
Sodium	5.83 U	5.83	98.0	mg/kg	96		76-110		
Strontium	0.0245 U	0.0245	0.490	mg/kg	98		84-110		
Tin	1.21 J	0.314	9.80	mg/kg	98		86-120		
Titanium	0.0696 U	0.0696	0.980	mg/kg	82		80-120		
Zirconium	0.451 U	0.451	4.90	mg/kg	103		80-120		
Batch number: 113245711003	Sample number(s): 6475866-6475869								
Mercury	0.0068 U	0.0068	0.0972	mg/kg	92		83-119		
Batch number: 113261848002	Sample number(s): 6475870								
Aluminum	0.0801 U	0.0801	0.200	mg/l	105	101	90-112	4	20
Boron	0.0042 J	0.0022	0.0500	mg/l	95	95	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	102	90-110	1	20
Iron	0.0173 J	0.0141	0.200	mg/l	102	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	103	101	90-110	2	20
Magnesium	0.0327 J	0.0067	0.100	mg/l	101	100	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	99	90-110	1	20
Potassium	0.0912 J	0.0874	0.500	mg/l	102	101	85-115	1	20
Sodium	0.0647 U	0.0647	1.00	mg/l	101	100	87-114	1	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	99	100	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	99	99	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	100	90-113	0	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	102	90-110	1	20
Batch number: 113265713007	Sample number(s): 6475870								
Mercury	0.000034 J	0.00002 6	0.00020	mg/l	89	90	80-120	1	20
Batch number: 113266050003A	Sample number(s): 6475870								
Antimony	0.00042 U	0.00042	0.0010	mg/l	113*	104	87-110	9	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	110	86-111	6	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	107	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	112	106	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	113	109	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	106	105	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	108	109	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	104	106	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	111	107	90-113	4	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	109	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	108	89-116	7	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	110	107	89-116	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	109	90-116	5	20
Batch number: 113266050003B	Sample number(s): 6475870								
Selenium	0.00027 U	0.00027	0.0020	mg/l	111	111	85-114	1	20
Batch number: 113266050003C	Sample number(s): 6475870								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	3	20
Batch number: 113266050003D	Sample number(s): 6475870								
Barium	0.00069 U	0.00069	0.0020	mg/l	106	103	88-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11322281101A	Sample number(s): 6475870									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	94	90	85-115	5	20
Batch number: 11322281401B	Sample number(s): 6475870									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	101	90-110	2	20
Batch number: 11322373201A	Sample number(s): 6475866-6475869									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	115		85-115		
Batch number: 11322373202A	Sample number(s): 6475866-6475869									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
Batch number: 11332243201A	Sample number(s): 6475866-6475869									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11333196602B	Sample number(s): 6475870									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	99	100	90-110	1	20
Batch number: 11322020003A	Sample number(s): 6475870									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11332039401B	Sample number(s): 6475866-6475869									
17a pH by 9045C						100		95-105		
Batch number: 11335162401B	Sample number(s): 6475866-6475869									
Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6475866-6475869 UNSPK: P473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				

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Quality Control Summary

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Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6475866-6475869 UNSPK: P473891								
Acenaphthene	94	91	63-105	3	30				
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				

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Quality Control Summary

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Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113230004A	Sample number(s): 6475866-6475869 UNSPK: P470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113241026002A	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Antimony	17*	24*	75-125	21*	20	0.170 J	0.251	38* (1)	20
Arsenic	120 (2)	315 (2)	75-125	27*	20	9.95	19.1	63*	20
Beryllium	99	141*	75-125	18	20	0.842	1.20	35*	20
Cadmium	113	133*	75-125	13	20	0.170	0.166	3 (1)	20
Chromium	133*	213*	75-125	18	20	26.3	47.5	57*	20
Cobalt	116	148*	75-125	20	20	11.1	22.0	66*	20
Copper	123	235*	75-125	22*	20	32.1	66.3	70*	20
Lead	132 (2)	322 (2)	75-125	26*	20	14.6	27.7	62*	20
Nickel	133*	227*	75-125	23*	20	21.7	44.2	68*	20
Silver	107	124	75-125	14	20	0.0245 J	0.0472 J	64* (1)	20
Thallium	114	149*	75-125	15	20	0.390	0.646	50* (1)	20
Vanadium	162 (2)	300 (2)	75-125	17	20	55.1	97.3	55*	20
Zinc	146 (2)	375 (2)	75-125	23*	20	72.3	144	66*	20
Batch number: 113241026002B	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Selenium	81	80	75-125	1	20	0.442	0.300 J	38* (1)	20
Batch number: 113241026002C	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Molybdenum	98	117	75-125	16	20	0.518	0.434	18 (1)	20
Batch number: 113241026002D	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Barium	146 (2)	388 (2)	75-125	21*	20	87.5	171	65*	20
Batch number: 113245708004	Sample number(s): 6475866-6475869 UNSPK: P467994 BKG: P467994								
Aluminum	1838 (2)	1801 (2)	75-125	0	20	17,200	16,900	2	20
Boron	97	97	84-115	3	20	4.24 J	4.57 J	8 (1)	20
Calcium	166 (2)	180 (2)	75-125	2	20	4,310	4,290	0	20
Iron	1639 (2)	569 (2)	75-125	4	20	26,400	24,000	9	20
Lithium	99	98	82-114	2	20	31.1	29.0	7	20
Magnesium	376 (2)	385 (2)	75-125	1	20	7,400	6,950	6	20
Manganese	-1 (2)	137 (2)	75-125	21*	20	289	278	4	20
Phosphorus	115 (2)	111 (2)	75-125	0	20	514	491	5	20
Potassium	158*	155*	75-125	0	20	2,690	2,670	1	20
Sodium	98	99	75-125	3	20	151	198	27* (1)	20
Strontium	99	99	75-115	3	20	16.4	18.6	12	20
Tin	85	86	80-110	4	20	20.4	2.70 J	153* (1)	20
Titanium	430 (2)	424 (2)	75-125	1	20	967	999	3	20
Zirconium	99	99	81-110	3	20	6.90	7.27	5 (1)	20
Batch number: 113245711003	Sample number(s): 6475866-6475869 UNSPK: P477490 BKG: P477490								
Mercury	97	99	65-135	4	20	0.0066 U	0.0070 U	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11322373201A	Sample number(s): 6475866-6475869				UNSPK: 6475866		BKG: 6475866		
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11322373202A	Sample number(s): 6475866-6475869				UNSPK: 6475866		BKG: 6475866		
11a Anions by 300.0 - Fluoride	83		80-120			1.3	0.80 U	200* (1)	20
Batch number: 11332243201A	Sample number(s): 6475866-6475869				UNSPK: 6475869		BKG: 6475869		
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401B	Sample number(s): 6475866-6475869				BKG: P477491				
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11335162401B	Sample number(s): 6475866-6475869				BKG: P463909				
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11323WAU026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475870	104	98	111
Blank	106	97	102
LCS	111	99	98
LCSD	116	100	102
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475866	88	91	90	81	82	81
6475867	93	96	89	83	88	83
6475868	91	94	86	83	84	84
6475869	85	88	78	78	82	80
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59
MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Surrogate Quality Control

6475866	95	87	93
6475867	125	76	94
6475868	100	89	94
6475869	75	79	89
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11327WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475870	68	44	98	87	90	85
Blank	60	39	91	85	88	89
LCS	75	50	97	87	92	85
LCSD	74	49	101	91	94	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6475866	102	114
6475867	99	109
6475868	100	110
6475869	101	115
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 113250021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6475870	112	120
Blank	106	105
LCS	99	111
LCSD	100	104
Limits:	30-150	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1277303 6475866-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-SS Sleeve			X	X						
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-SS Sleeve			X	X						
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)

Date/Time: 11/17/2011 / 1630

Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*)

Date/Time

Airbill No.(s): 8767 9857 4960

Suzette Lehman

11/18/11 0945 0925

AHO 11/18/11

SA8S

13013 1277303 6475866-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	5-1 liter ambers			X	X	X																	
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA8S-SB-111711	11.17.11	1400	WATER	HNO3	1-500 mL poly	X																					

Relinquished by: (*Signature*) — Date/Time: 11/17/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 4960

Laboratory: Lancaster Laboratories, Inc.

Suzette Lehman 11/18/11 0945

0925

AMO 11/18/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/18/2011
Group Number: 1277304
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA8S-SB-4.0-5.0 Soil	6475871
SL-010-SA8S-SB-8.5-9.5 Soil	6475872
SL-008-SA8S-SB-2.0-3.0 Soil	6475873
SL-011-SA8S-SB-4.0-5.0 Soil	6475874
EB-SA8S-SB-111711 Water	6475875

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	1.13	1
11031	12378-PeCDD	40321-76-4	0.0375 JQ	0.0316	5.65	1
11031	123478-HxCDD	39227-28-6	0.0252 JBQ	0.0236	5.65	1
11031	123678-HxCDD	57653-85-7	0.0682 JB	0.0240	5.65	1
11031	123789-HxCDD	19408-74-3	0.0696 JB	0.0225	5.65	1
11031	1234678-HpCDD	35822-46-9	0.664 JBQ	0.0256	5.65	1
11031	OCDD	3268-87-9	3.28 JB	0.0244	11.3	1
11031	2378-TCDF	51207-31-9	0.0471 JQ	0.0374	1.13	1
11031	12378-PeCDF	57117-41-6	0.0336 JBQ	0.0184	5.65	1
11031	23478-PeCDF	57117-31-4	0.101 JB	0.0179	5.65	1
11031	123478-HxCDF	70648-26-9	0.0574 JBQ	0.0170	5.65	1
11031	123678-HxCDF	57117-44-9	0.0414 JBQ	0.0146	5.65	1
11031	123789-HxCDF	72918-21-9	0.0185 U	0.0185	5.65	1
11031	234678-HxCDF	60851-34-5	0.0483 JBQ	0.0151	5.65	1
11031	1234678-HpCDF	67562-39-4	0.158 JBQ	0.0115	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0486 JBQ	0.0182	5.65	1
11031	OCDF	39001-02-0	0.292 JB	0.0307	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 16:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0412 U	0.0412	1.12	1
11031	12378-PeCDD	40321-76-4	0.0341 U	0.0341	5.60	1
11031	123478-HxCDD	39227-28-6	0.0233 JBQ	0.0226	5.60	1
11031	123678-HxCDD	57653-85-7	0.0225 U	0.0225	5.60	1
11031	123789-HxCDD	19408-74-3	0.0397 JB	0.0226	5.60	1
11031	1234678-HpCDD	35822-46-9	0.352 JB	0.0235	5.60	1
11031	OCDD	3268-87-9	1.20 JB	0.0184	11.2	1
11031	2378-TCDF	51207-31-9	0.0390 JQ	0.0332	1.12	1
11031	12378-PeCDF	57117-41-6	0.0157 U	0.0157	5.60	1
11031	23478-PeCDF	57117-31-4	0.0595 JBQ	0.0159	5.60	1
11031	123478-HxCDF	70648-26-9	0.0559 JB	0.0176	5.60	1
11031	123678-HxCDF	57117-44-9	0.0146 U	0.0146	5.60	1
11031	123789-HxCDF	72918-21-9	0.0443 JBQ	0.0160	5.60	1
11031	234678-HxCDF	60851-34-5	0.0427 JBQ	0.0123	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0906 JBQ	0.0108	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0242 JB	0.0162	5.60	1
11031	OCDF	39001-02-0	0.174 JB	0.0302	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-010-SA8S-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 17:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0387 U	0.0387	1.07	1
11031	12378-PeCDD	40321-76-4	0.0330 U	0.0330	5.36	1
11031	123478-HxCDD	39227-28-6	0.0225 U	0.0225	5.36	1
11031	123678-HxCDD	57653-85-7	0.0356 JBQ	0.0228	5.36	1
11031	123789-HxCDD	19408-74-3	0.0233 U	0.0233	5.36	1
11031	1234678-HpCDD	35822-46-9	0.306 JB	0.0215	5.36	1
11031	OCDD	3268-87-9	1.01 JB	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	0.0305 U	0.0305	1.07	1
11031	12378-PeCDF	57117-41-6	0.0295 JB	0.0144	5.36	1
11031	23478-PeCDF	57117-31-4	0.0712 JBQ	0.0141	5.36	1
11031	123478-HxCDF	70648-26-9	0.0205 JBQ	0.0140	5.36	1
11031	123678-HxCDF	57117-44-9	0.0469 JBQ	0.0117	5.36	1
11031	123789-HxCDF	72918-21-9	0.0215 JBQ	0.0136	5.36	1
11031	234678-HxCDF	60851-34-5	0.0267 JBQ	0.0110	5.36	1
11031	1234678-HpCDF	67562-39-4	0.108 JBQ	0.0102	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0293 JB	0.0163	5.36	1
11031	OCDF	39001-02-0	0.0850 JB	0.0302	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 18:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0415	U	0.0415	1.11	1
11031	12378-PeCDD	40321-76-4	0.0325	U	0.0325	5.55	1
11031	123478-HxCDD	39227-28-6	0.0398	JB	0.0224	5.55	1
11031	123678-HxCDD	57653-85-7	0.0757	JB	0.0228	5.55	1
11031	123789-HxCDD	19408-74-3	0.0462	JBQ	0.0228	5.55	1
11031	1234678-HpCDD	35822-46-9	0.408	JB	0.0235	5.55	1
11031	OCDD	3268-87-9	1.60	JB	0.0268	11.1	1
11031	2378-TCDF	51207-31-9	0.0609	JQ	0.0362	1.11	1
11031	12378-PeCDF	57117-41-6	0.0854	JBQ	0.0172	5.55	1
11031	23478-PeCDF	57117-31-4	0.0337	JB	0.0167	5.55	1
11031	123478-HxCDF	70648-26-9	0.0367	JBQ	0.0167	5.55	1
11031	123678-HxCDF	57117-44-9	0.0348	JBQ	0.0138	5.55	1
11031	123789-HxCDF	72918-21-9	0.0171	U	0.0171	5.55	1
11031	234678-HxCDF	60851-34-5	0.0432	JBQ	0.0143	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0614	JBQ	0.0102	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0575	JBQ	0.0171	5.55	1
11031	OCDF	39001-02-0	0.178	JB	0.0327	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 19:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475875
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB117 SDG#: DX155-17EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.200	U	0.200	2.09	1
10915	12378-PeCDD	40321-76-4	0.347	JQ	0.248	10.5	1
10915	123478-HxCDD	39227-28-6	0.362	JBQ	0.188	10.5	1
10915	123678-HxCDD	57653-85-7	0.199	JBQ	0.186	10.5	1
10915	123789-HxCDD	19408-74-3	0.416	JBQ	0.178	10.5	1
10915	1234678-HpCDD	35822-46-9	2.67	JBQ	0.221	10.5	1
10915	OCDD	3268-87-9	6.54	JBQ	0.226	20.9	1
10915	2378-TCDF	51207-31-9	0.155	U	0.155	2.09	1
10915	12378-PeCDF	57117-41-6	0.181	JBQ	0.115	10.5	1
10915	23478-PeCDF	57117-31-4	0.432	JBQ	0.0966	10.5	1
10915	123478-HxCDF	70648-26-9	0.384	JBQ	0.147	10.5	1
10915	123678-HxCDF	57117-44-9	0.473	JBQ	0.150	10.5	1
10915	123789-HxCDF	72918-21-9	0.276	JQ	0.103	10.5	1
10915	234678-HxCDF	60851-34-5	0.655	JBQ	0.0926	10.5	1
10915	1234678-HpCDF	67562-39-4	2.66	JB	0.133	10.5	1
10915	1234789-HpCDF	55673-89-7	0.168	JBQ	0.123	10.5	1
10915	OCDF	39001-02-0	1.73	JBQ	0.337	20.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475875
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB117 SDG#: DX155-17EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326001	11/24/2011 01:59	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11326001	11/22/2011 08:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11335162401B	Sample number(s): 6475871-6475874									
Moisture Content by 160.3						99		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326001	Sample number(s): 6475875									
2378-TCDD	0.426	U	0.426	2.00	pg/l	112		67-158		
12378-PeCDD	0.358	U	0.358	10.0	pg/l	109		70-142		
123478-HxCDD	0.486	J	0.307	10.0	pg/l	101		70-164		
123678-HxCDD	0.713	J	0.312	10.0	pg/l	99		76-134		
123789-HxCDD	0.574	J	0.314	10.0	pg/l	104		64-162		
1234678-HpCDD	4.66	J	0.349	10.0	pg/l	101		70-140		
OCDD	7.85	J	0.379	20.0	pg/l	95		78-144		
2378-TCDF	0.234	U	0.234	2.00	pg/l	100		75-158		
12378-PeCDF	0.553	J	0.175	10.0	pg/l	107		80-134		
23478-PeCDF	0.487	J	0.150	10.0	pg/l	99		68-160		
123478-HxCDF	0.618	J	0.213	10.0	pg/l	100		72-134		
123678-HxCDF	0.222	J	0.200	10.0	pg/l	102		84-130		
123789-HxCDF	0.220	U	0.220	10.0	pg/l	102		78-130		
234678-HxCDF	0.306	J	0.190	10.0	pg/l	100		70-156		
1234678-HpCDF	1.94	J	0.159	10.0	pg/l	93		82-122		
1234789-HpCDF	0.617	J	0.191	10.0	pg/l	98		78-138		
OCDF	1.85	J	0.505	20.0	pg/l	99		63-170		
Batch number: 11326002	Sample number(s): 6475871-6475874									
2378-TCDD	0.0443	U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284	U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393	J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367	J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256	J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234	J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377	J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281	U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345	J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494	J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287	J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276	J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277	J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408	J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104	J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229	J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106	J	0.0280	10.0	ng/kg	92		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11335162401B	Sample number(s): 6475871-6475874					BKG: P463909			
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11326001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6475875	68	75	46	46	71	76
Blank	50	56	48	48	51	54
OPR	60	71	65	67	67	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6475875	49	68	64	68	66	67
Blank	48	47	45	50	46	50
OPR	69	71	73	63	64	66
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6475875	66	66	64	78	74
Blank	48	49	47	63	55
OPR	65	68	74	69	71
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6475871	73	80	69	80	77	75
6475872	71	77	54	69	78	68
6475873	67	74	60	73	73	72
6475874	66	70	61	72	71	69
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6475871	97	75	83	81	83	84
6475872	90	70	75	82	83	86
6475873	94	72	79	77	81	84
6475874	91	70	75	74	79	79
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6475871	84	90	101	73	86
6475872	84	90	99	70	87
6475873	81	91	98	68	81
6475874	78	85	93	65	76
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1277304 6475871-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-SS Sleeve			X	X						
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-SS Sleeve			X	X						
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/17/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	11/18/11 0945 0925
		8767 9857 4960	

AKO 11/18/11

SA8S

13013 1277304 6475871-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010A/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Secondary: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	Other Instructions and Notes
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	5-1 liter ambers			X	X	X																	
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA8S-SB-111711	11.17.11	1400	WATER	HNO3	1-500 mL poly	X																					

Relinquished by: (*Signature*) — Date/Time: 11/17/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 4960

Laboratory: Lancaster Laboratories, Inc.

Scott Lehman 11/18/11 0945

0925

AHO 11/18/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/19/2011
Group Number: 1277528
SDG: DE289
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SB-4.0-5.0 Soil	6477490
SL-012-SA8S-SB-4.0-5.0 Soil	6477491

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

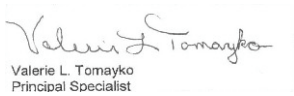
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.49	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		6.63	21.9	1
07914	Boron	7440-42-8	9.10		0.395	5.48	1
01650	Calcium	7440-70-2	122,000		13.7	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,700		2.86	21.9	1
01656	Lithium	7439-93-2	17.5		0.68	2.2	1
01657	Magnesium	7439-95-4	5,600		0.483	11.0	1
06958	Manganese	7439-96-5	334		0.0395	0.548	1
10145	Phosphorus	7723-14-0	420		0.384	11.0	1
01662	Potassium	7440-09-7	3,220		12.4	54.8	1
01667	Sodium	7440-23-5	139		6.52	110	1
07968	Strontium	7440-24-6	230		0.0274	0.548	1
06969	Tin	7440-31-5	2.85	J	0.351	11.0	1
06970	Titanium	7440-32-6	871		0.0779	1.10	1
10146	Zirconium	7440-67-7	6.08		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0812	U	0.0812	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.88		0.0877	0.439	2
06126	Barium	7440-39-3	88.9		0.116	0.439	2
06127	Beryllium	7440-41-7	0.660		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.394		0.0483	0.110	2
06131	Chromium	7440-47-3	35.3		0.132	0.439	2
06132	Cobalt	7440-48-4	8.59		0.0219	0.110	2
06133	Copper	7440-50-8	12.7		0.0877	0.439	2
06135	Lead	7439-92-1	7.63		0.0112	0.219	2
06138	Molybdenum	7439-98-7	0.193		0.0548	0.110	2
06139	Nickel	7440-02-0	15.2		0.110	0.439	2
06141	Selenium	7782-49-2	0.166	J	0.0636	0.439	2
06142	Silver	7440-22-4	0.0156	U	0.0156	0.110	2
06145	Thallium	7440-28-0	0.284		0.0329	0.110	2
06148	Vanadium	7440-62-2	59.9		0.0241	0.110	2
06149	Zinc	7440-66-6	56.5		0.614	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.77	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 14:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/29/2011 00:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113270015A	11/30/2011 09:37	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113270015A	11/23/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:47	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:35	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11333621201A	11/29/2011 13:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11333621202A	12/02/2011 16:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 20:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11333621201A	11/29/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11333621202A	11/29/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	23		6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		6.59	21.8	1
07914	Boron	7440-42-8	7.11		0.392	5.45	1
01650	Calcium	7440-70-2	116,000		5.45	43.6	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	26,700	2.84	21.8	1
01656	Lithium	7439-93-2	18.4	0.68	2.2	1
01657	Magnesium	7439-95-4	5,770	0.479	10.9	1
06958	Manganese	7439-96-5	271	0.0392	0.545	1
10145	Phosphorus	7723-14-0	373	0.381	10.9	1
01662	Potassium	7440-09-7	2,800	12.3	54.5	1
01667	Sodium	7440-23-5	144	6.48	109	1
07968	Strontium	7440-24-6	197	0.0272	0.545	1
06969	Tin	7440-31-5	2.82 J	0.349	10.9	1
06970	Titanium	7440-32-6	711	0.0774	1.09	1
10146	Zirconium	7440-67-7	5.71	0.501	5.45	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106 J	0.0806	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.9	0.0872	0.436	2
06126	Barium	7440-39-3	95.8	0.116	0.436	2
06127	Beryllium	7440-41-7	0.573	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.262	0.0479	0.109	2
06131	Chromium	7440-47-3	33.5	0.131	0.436	2
06132	Cobalt	7440-48-4	9.46	0.0218	0.109	2
06133	Copper	7440-50-8	13.4	0.0872	0.436	2
06135	Lead	7439-92-1	7.95	0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.317	0.0545	0.109	2
06139	Nickel	7440-02-0	16.0	0.109	0.436	2
06141	Selenium	7782-49-2	0.236 J	0.0632	0.436	2
06142	Silver	7440-22-4	0.0155 U	0.0155	0.109	2
06145	Thallium	7440-28-0	0.321	0.0327	0.109	2
06148	Vanadium	7440-62-2	57.3	0.0240	0.109	2
06149	Zinc	7440-66-6	54.5	0.610	3.27	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.72	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/11/2011 16:33	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/29/2011 00:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113270015A	11/30/2011 10:33	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113270015A	11/23/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:55	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:51	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:37	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11333621201A	11/29/2011 13:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11333621202A	12/02/2011 17:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 20:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11333621201A	11/29/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11333621202A	11/29/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11326SLE026	Sample number(s): 6477490-6477491									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6477490-6477491									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 113270015A	Sample number(s): 6477490-6477491									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70	67	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113241026002A	Sample number(s): 6477490-6477491									
Antimony	0.0718	U	0.0718	0.194	mg/kg	70		40-227		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	96		83-111		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	97		84-112		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	99		83-111		
Chromium	0.117	U	0.117	0.388	mg/kg	104		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	99		85-114		
Copper	0.0777	U	0.0777	0.388	mg/kg	99		81-110		
Lead	0.0099	U	0.0099	0.194	mg/kg	99		84-112		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	101		83-112		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	99		82-112		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	99		76-110		
Zinc	0.689	J	0.544	2.91	mg/kg	99		82-110		
Batch number: 113241026002B	Sample number(s): 6477490-6477491									
Selenium	0.0563	U	0.0563	0.388	mg/kg	99		79-110		
Batch number: 113241026002C	Sample number(s): 6477490-6477491									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	96		80-110		
Batch number: 113241026002D	Sample number(s): 6477490-6477491									
Barium	0.103	U	0.103	0.388	mg/kg	98		83-110		
Batch number: 113245708004	Sample number(s): 6477490-6477491									
Aluminum	5.93	U	5.93	19.6	mg/kg	79		40-127		
Boron	0.353	U	0.353	4.90	mg/kg	97		83-110		
Calcium	6.46	J	2.45	19.6	mg/kg	100		81-110		
Iron	3.25	J	2.56	19.6	mg/kg	84		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	2.95	J	0.431	9.80	mg/kg	85		63-116		
Manganese	0.0588	J	0.0353	0.490	mg/kg	97		85-116		
Phosphorus	1.31	J	0.343	9.80	mg/kg	102		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	96		71-110		
Sodium	5.83	U	5.83	98.0	mg/kg	96		76-110		
Strontium	0.0245	U	0.0245	0.490	mg/kg	98		84-110		
Tin	1.21	J	0.314	9.80	mg/kg	98		86-120		
Titanium	0.0696	U	0.0696	0.980	mg/kg	82		80-120		
Zirconium	0.451	U	0.451	4.90	mg/kg	103		80-120		
Batch number: 113245711003	Sample number(s): 6477490-6477491									
Mercury	0.0068	U	0.0068	0.0972	mg/kg	92		83-119		
Batch number: 11332243201A	Sample number(s): 6477490-6477491									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11333621201A	Sample number(s): 6477490-6477491									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11333621202A	Sample number(s): 6477490-6477491									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11332039401B	Sample number(s): 6477490-6477491									
17a pH by 9045C						100		95-105		
Batch number: 11335162401B	Sample number(s): 6477490-6477491									
Moisture Content by 160.3						99		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6477490-6477491 UNSPK: P473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
bis(2-Ethylhexyl)phthalate	67	77	63-122	14	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6477490-6477491 UNSPK: P473891								
Acenaphthene	94	91	63-105	3	30				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113270015A	Sample number(s): 6477490-6477491 UNSPK: 6477490								
PCB-1016	75	77	29-146	3	50				
PCB-1260	83	85	39-149	2	50				
Batch number: 113241026002A	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Antimony	17*	24*	75-125	21*	20	0.170 J	0.251	38* (1)	20
Arsenic	120 (2)	315 (2)	75-125	27*	20	9.95	19.1	63*	20
Beryllium	99	141*	75-125	18	20	0.842	1.20	35*	20
Cadmium	113	133*	75-125	13	20	0.170	0.166	3 (1)	20
Chromium	133*	213*	75-125	18	20	26.3	47.5	57*	20
Cobalt	116	148*	75-125	20	20	11.1	22.0	66*	20
Copper	123	235*	75-125	22*	20	32.1	66.3	70*	20
Lead	132 (2)	322 (2)	75-125	26*	20	14.6	27.7	62*	20
Nickel	133*	227*	75-125	23*	20	21.7	44.2	68*	20
Silver	107	124	75-125	14	20	0.0245 J	0.0472 J	64* (1)	20
Thallium	114	149*	75-125	15	20	0.390	0.646	50* (1)	20
Vanadium	162 (2)	300 (2)	75-125	17	20	55.1	97.3	55*	20
Zinc	146 (2)	375 (2)	75-125	23*	20	72.3	144	66*	20
Batch number: 113241026002B	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Selenium	81	80	75-125	1	20	0.442	0.300 J	38* (1)	20
Batch number: 113241026002C	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Molybdenum	98	117	75-125	16	20	0.518	0.434	18 (1)	20
Batch number: 113241026002D	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Barium	146 (2)	388 (2)	75-125	21*	20	87.5	171	65*	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113245708004	Sample number(s): 6477490-6477491 UNSPK: P467994 BKG: P467994								
Aluminum	1838 (2)	1801 (2)	75-125	0	20	17,200	16,900	2	20
Boron	97	97	84-115	3	20	4.24 J	4.57 J	8 (1)	20
Calcium	166 (2)	180 (2)	75-125	2	20	4,310	4,290	0	20
Iron	1639 (2)	569 (2)	75-125	4	20	26,400	24,000	9	20
Lithium	99	98	82-114	2	20	31.1	29.0	7	20
Magnesium	376 (2)	385 (2)	75-125	1	20	7,400	6,950	6	20
Manganese	-1 (2)	137 (2)	75-125	21*	20	289	278	4	20
Phosphorus	115 (2)	111 (2)	75-125	0	20	514	491	5	20
Potassium	158*	155*	75-125	0	20	2,690	2,670	1	20
Sodium	98	99	75-125	3	20	151	198	27* (1)	20
Strontium	99	99	75-115	3	20	16.4	18.6	12	20
Tin	85	86	80-110	4	20	20.4	2.70 J	153* (1)	20
Titanium	430 (2)	424 (2)	75-125	1	20	967	999	3	20
Zirconium	99	99	81-110	3	20	6.90	7.27	5 (1)	20
Batch number: 113245711003	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
Mercury	97	99	65-135	4	20	0.0066 U	0.0070 U	0 (1)	20
Batch number: 11332243201A	Sample number(s): 6477490-6477491 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11333621201A	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
11a Anions by 300.0 - Fluoride	96		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11333621202A	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11332039401B	Sample number(s): 6477490-6477491 BKG: 6477491								
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11335162401B	Sample number(s): 6477490-6477491 BKG: P463909								
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6477490	92	95	73	80	83	82
6477491	91	96	91	84	91	83
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Surrogate Quality Control

MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6477490	99	106	92
6477491	98	88	87
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113270015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6477490	95	105
6477491	90	100
Blank	88	103
LCS	91	106
LCSD	93	108
MS	75	100
MSD	83	94
Limits:	53-139	45-120

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1277528 sample# 6477490-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-SS Sleeve			X	X						
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	11/18/2011 / 1630			Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
	11/18/11 0950	8767 9857 4982		

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/19/2011
Group Number: 1277529
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SB-4.0-5.0 Soil	6477492
SL-012-SA8S-SB-4.0-5.0 Soil	6477493

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0547 JQ	0.0372	1.12	1
11031	12378-PeCDD	40321-76-4	0.0784 JQ	0.0306	5.58	1
11031	123478-HxCDD	39227-28-6	0.0477 JB	0.0185	5.58	1
11031	123678-HxCDD	57653-85-7	0.0609 JBQ	0.0187	5.58	1
11031	123789-HxCDD	19408-74-3	0.0531 JBQ	0.0195	5.58	1
11031	1234678-HpCDD	35822-46-9	0.334 JBQ	0.0189	5.58	1
11031	OCDD	3268-87-9	0.761 JBQ	0.0224	11.2	1
11031	2378-TCDF	51207-31-9	0.0395 JQ	0.0260	1.12	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.0153	5.58	1
11031	23478-PeCDF	57117-31-4	0.107 JB	0.0148	5.58	1
11031	123478-HxCDF	70648-26-9	0.105 JB	0.0124	5.58	1
11031	123678-HxCDF	57117-44-9	0.0364 JBQ	0.00996	5.58	1
11031	123789-HxCDF	72918-21-9	0.0227 JB	0.0138	5.58	1
11031	234678-HxCDF	60851-34-5	0.0599 JBQ	0.0101	5.58	1
11031	1234678-HpCDF	67562-39-4	0.0761 JB	0.00694	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0133 JBQ	0.0120	5.58	1
11031	OCDF	39001-02-0	0.145 JB	0.0342	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 19:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0383	U	0.0383	1.10	1
11031	12378-PeCDD	40321-76-4	0.0619	JQ	0.0334	5.52	1
11031	123478-HxCDD	39227-28-6	0.0292	JBQ	0.0207	5.52	1
11031	123678-HxCDD	57653-85-7	0.0205	U	0.0205	5.52	1
11031	123789-HxCDD	19408-74-3	0.0428	JB	0.0195	5.52	1
11031	1234678-HpCDD	35822-46-9	0.225	JBQ	0.0212	5.52	1
11031	OCDD	3268-87-9	0.588	JB	0.0223	11.0	1
11031	2378-TCDF	51207-31-9	0.0343	JQ	0.0301	1.10	1
11031	12378-PeCDF	57117-41-6	0.0756	JB	0.0158	5.52	1
11031	23478-PeCDF	57117-31-4	0.113	JB	0.0157	5.52	1
11031	123478-HxCDF	70648-26-9	0.0423	JBQ	0.0160	5.52	1
11031	123678-HxCDF	57117-44-9	0.0165	JB	0.0128	5.52	1
11031	123789-HxCDF	72918-21-9	0.0401	JB	0.0162	5.52	1
11031	234678-HxCDF	60851-34-5	0.0570	JBQ	0.0119	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0805	JB	0.00853	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0159	JBQ	0.0147	5.52	1
11031	OCDF	39001-02-0	0.161	JB	0.0338	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 20:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277529
Reported: 12/02/11 at 09:10 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11335162401B	Sample number(s): 6477492-6477493								
Moisture Content by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6477492-6477493								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11335162401B	Sample number(s): 6477492-6477493					BKG: P463909			
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277529
Reported: 12/02/11 at 09:10 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6477492	76	85	70	84	87	77
6477493	72	72	58	75	74	69
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6477492	107	78	80	93	93	99
6477493	99	71	76	80	84	88
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6477492	95	101	106	74	94
6477493	86	94	102	67	81
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1277529 sample# 6477492-93

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						Primary										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C. Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				
Relinquished by: (*Signature*)	Date/Time 11/18/2011 / 1630		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time 11/18/11 0950		Airbill No.(s) 8767 9857 4982														

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/02/2011
Group Number: 1279187
SDG: DE291
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP17-SA6-QC-120111 Soil	6487688
SL-023-SA8S-SB-4.0-5.0 Soil	6487689
SL-023-SA8S-SB-9.0-10.0 Soil	6487690
SL-022-SA8S-SB-4.0-5.0 Soil	6487691
SL-022-SA8S-SB-8.0-9.0 Soil	6487692
EB-SA6-SB-120111 Water	6487693

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	18	U	18	180		1
04688	Acenaphthylene	208-96-8	18	U	18	180		1
04688	Aniline	62-53-3	180	U	180	540		1
04688	Anthracene	120-12-7	26	J	18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	18	U	18	180		1
04688	Benzo(a)pyrene	50-32-8	21	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	32	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	83	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	18	U	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	29	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	18	U	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	18	360		1
04688	Fluoranthene	206-44-0	18	U	18	180		1
04688	Fluorene	86-73-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	50	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	18	U	18	180		1
04688	2-Methylnaphthalene	91-57-6	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	18	U	18	180		1
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	36	U	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	18	U	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	140	J	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.096	J	0.081	0.18		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.27	J	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.21	J	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.10	J	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.24	J	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	9.9	U	9.9	9.9		1

The response for a target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	7.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	6.6		0.36	1.8		1
10225	PCB-1260	11096-82-5	13		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	130	J	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

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14420 Albemarle Point Place
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E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	60		4.3	13		10
10199	EFH (C30 - C40)	n.a.	260		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.41	21.2		1
07914	Boron	7440-42-8	4.71	J	0.382	5.30		1
01650	Calcium	7440-70-2	4,030		2.65	21.2		1
01654	Iron	7439-89-6	19,900		2.77	21.2		1
01656	Lithium	7439-93-2	20.3		0.66	2.1		1
01657	Magnesium	7439-95-4	4,380		0.466	10.6		1
06958	Manganese	7439-96-5	277		0.0382	0.530		1
10145	Phosphorus	7723-14-0	424		0.371	10.6		1
01662	Potassium	7440-09-7	2,470		12.0	53.0		1
01667	Sodium	7440-23-5	215		6.31	106		1
07968	Strontium	7440-24-6	24.1		0.0265	0.530		1
06969	Tin	7440-31-5	2.46	J	0.339	10.6		1
06970	Titanium	7440-32-6	975		0.0753	1.06		1
10146	Zirconium	7440-67-7	3.08	J	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0881	J	0.0800	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.74		0.0865	0.432		2
06126	Barium	7440-39-3	104		0.115	0.432		2
06127	Beryllium	7440-41-7	0.678		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.208		0.0476	0.108		2
06131	Chromium	7440-47-3	21.8		0.130	0.432		2
06132	Cobalt	7440-48-4	7.02		0.0216	0.108		2
06133	Copper	7440-50-8	12.1		0.0865	0.432		2
06135	Lead	7439-92-1	11.6		0.0110	0.216		2
06138	Molybdenum	7439-98-7	2.22		0.0541	0.108		2
06139	Nickel	7440-02-0	13.9		0.108	0.432		2
06141	Selenium	7782-49-2	0.733		0.0627	0.432		2
06142	Silver	7440-22-4	0.0398	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.292		0.0324	0.108		2
06148	Vanadium	7440-62-2	42.4		0.0238	0.108		2

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	126		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.62		0.0377	0.537		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11337SLC026	12/11/2011 23:48	Holly Berry	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	113400037A	12/10/2011 06:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	113390023A	12/12/2011 23:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 19:07	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	113390023A	12/05/2011 18:30	Sally L Appleyard	1

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SSFL Area IV Collocated Soil Sampling
DUP17-SA6

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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	113400037A	12/07/2011 07:30	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113360017A	12/05/2011 23:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113420018A	12/09/2011 01:36	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113390013A	12/06/2011 17:16	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113400014A	12/09/2011 12:44	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	113400014A	12/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113390013A	12/05/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113360017A	12/05/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113420018A	12/08/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:42	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/09/2011 23:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:08	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11339102201B	12/06/2011 18:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11339102201B	12/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,900		6.67	22.1		1
07914	Boron	7440-42-8	11.3		0.397	5.52		1
01650	Calcium	7440-70-2	70,400		13.8	110		5

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Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,500		14.4	110		5
01656	Lithium	7439-93-2	34.1		0.68	2.2		1
01657	Magnesium	7439-95-4	9,040		0.485	11.0		1
06958	Manganese	7439-96-5	319		0.0397	0.552		1
10145	Phosphorus	7723-14-0	608		0.386	11.0		1
01662	Potassium	7440-09-7	4,040		12.5	55.2		1
01667	Sodium	7440-23-5	138		6.56	110		1
07968	Strontium	7440-24-6	128		0.0276	0.552		1
06969	Tin	7440-31-5	2.54	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,290		0.0783	1.10		1
10146	Zirconium	7440-67-7	9.49		0.508	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.236		0.0801	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.7		0.0866	0.433		2
06126	Barium	7440-39-3	130		0.287	1.08		5
06127	Beryllium	7440-41-7	1.14		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.326		0.0476	0.108		2
06131	Chromium	7440-47-3	57.9		0.130	0.433		2
06132	Cobalt	7440-48-4	22.6		0.0216	0.108		2
06133	Copper	7440-50-8	59.0		0.0866	0.433		2
06135	Lead	7439-92-1	26.8		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.315		0.0541	0.108		2
06139	Nickel	7440-02-0	44.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.217	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0463	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.760		0.0325	0.108		2
06148	Vanadium	7440-62-2	123		0.0238	0.108		2
06149	Zinc	7440-66-6	186		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011	00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/17/2011	17:12	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011	09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011	19:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011	05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011	07:31	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/09/2011	07:31	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011	07:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011	15:11	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/12/2011 06:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		6.57	21.7		1
07914	Boron	7440-42-8	9.40		0.391	5.43		1
01650	Calcium	7440-70-2	97,900		13.6	109		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,200	2.83	21.7		1
01656	Lithium	7439-93-2	26.7	0.67	2.2		1
01657	Magnesium	7439-95-4	6,940	0.478	10.9		1
06958	Manganese	7439-96-5	247	0.0391	0.543		1
10145	Phosphorus	7723-14-0	437	0.380	10.9		1
01662	Potassium	7440-09-7	3,320	12.3	54.3		1
01667	Sodium	7440-23-5	212	6.46	109		1
07968	Strontium	7440-24-6	172	0.0271	0.543		1
06969	Tin	7440-31-5	2.40 J	0.347	10.9		1
06970	Titanium	7440-32-6	822	0.0771	1.09		1
10146	Zirconium	7440-67-7	6.93	0.499	5.43		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839 J	0.0803	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.97	0.0869	0.434		2
06126	Barium	7440-39-3	98.0	0.115	0.434		2
06127	Beryllium	7440-41-7	0.677	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.293	0.0478	0.109		2
06131	Chromium	7440-47-3	39.3	0.130	0.434		2
06132	Cobalt	7440-48-4	8.87	0.0217	0.109		2
06133	Copper	7440-50-8	15.2	0.0869	0.434		2
06135	Lead	7439-92-1	9.32	0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.275	0.0543	0.109		2
06139	Nickel	7440-02-0	18.7	0.109	0.434		2
06141	Selenium	7782-49-2	0.453	0.0630	0.434		2
06142	Silver	7440-22-4	0.0276 J	0.0154	0.109		2
06145	Thallium	7440-28-0	0.287	0.0326	0.109		2
06148	Vanadium	7440-62-2	65.8	0.0239	0.109		2
06149	Zinc	7440-66-6	61.2	0.608	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.52	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 00:36	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/17/2011 17:43	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 19:44	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011 07:34	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.67	22.1		1
07914	Boron	7440-42-8	9.60		0.397	5.51		1
01650	Calcium	7440-70-2	102,000		13.8	110		5

*=This limit was used in the evaluation of the final result
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Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,000		2.88	22.1		1
01656	Lithium	7439-93-2	31.8		0.68	2.2		1
01657	Magnesium	7439-95-4	8,070		0.485	11.0		1
06958	Manganese	7439-96-5	298		0.0397	0.551		1
10145	Phosphorus	7723-14-0	444		0.386	11.0		1
01662	Potassium	7440-09-7	2,680		12.5	55.1		1
01667	Sodium	7440-23-5	106	J	6.56	110		1
07968	Strontium	7440-24-6	121		0.0276	0.551		1
06969	Tin	7440-31-5	2.48	J	0.353	11.0		1
06970	Titanium	7440-32-6	947		0.0783	1.10		1
10146	Zirconium	7440-67-7	7.88		0.507	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	U	0.0824	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0891	0.445		2
06126	Barium	7440-39-3	88.3		0.118	0.445		2
06127	Beryllium	7440-41-7	0.759		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.255		0.0490	0.111		2
06131	Chromium	7440-47-3	32.3		0.134	0.445		2
06132	Cobalt	7440-48-4	11.6		0.0223	0.111		2
06133	Copper	7440-50-8	22.7		0.0891	0.445		2
06135	Lead	7439-92-1	11.6		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.358		0.0557	0.111		2
06139	Nickel	7440-02-0	20.6		0.111	0.445		2
06141	Selenium	7782-49-2	0.239	J	0.0646	0.445		2
06142	Silver	7440-22-4	0.0190	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.328		0.0334	0.111		2
06148	Vanadium	7440-62-2	61.3		0.0245	0.111		2
06149	Zinc	7440-66-6	73.5		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 14:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/21/2011 17:21	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011 07:38	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 22:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.81	22.5		1
07914	Boron	7440-42-8	13.0		0.405	5.63		1
01650	Calcium	7440-70-2	54,300		2.81	22.5		1

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Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	38,800		14.7	113		5
01656	Lithium	7439-93-2	43.9		0.70	2.3		1
01657	Magnesium	7439-95-4	10,900		0.495	11.3		1
06958	Manganese	7439-96-5	303		0.0405	0.563		1
10145	Phosphorus	7723-14-0	500		0.394	11.3		1
01662	Potassium	7440-09-7	4,210		12.7	56.3		1
01667	Sodium	7440-23-5	149		6.69	113		1
07968	Strontium	7440-24-6	101		0.0281	0.563		1
06969	Tin	7440-31-5	2.57	J	0.360	11.3		1
06970	Titanium	7440-32-6	1,290		0.0799	1.13		1
10146	Zirconium	7440-67-7	8.60		0.518	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0833	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.39		0.0900	0.450		2
06126	Barium	7440-39-3	110		0.119	0.450		2
06127	Beryllium	7440-41-7	0.816		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.178		0.0495	0.113		2
06131	Chromium	7440-47-3	32.6		0.135	0.450		2
06132	Cobalt	7440-48-4	14.1		0.0225	0.113		2
06133	Copper	7440-50-8	28.7		0.0900	0.450		2
06135	Lead	7439-92-1	12.6		0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.453		0.0563	0.113		2
06139	Nickel	7440-02-0	22.6		0.113	0.450		2
06141	Selenium	7782-49-2	0.128	J	0.0653	0.450		2
06142	Silver	7440-22-4	0.0160	U	0.0160	0.113		2
06145	Thallium	7440-28-0	0.414		0.0338	0.113		2
06148	Vanadium	7440-62-2	65.4		0.0248	0.113		2
06149	Zinc	7440-66-6	85.2		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 14:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/21/2011 17:54	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113395708002	12/09/2011 07:42	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201B	12/15/2011 22:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 01:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201B	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.954	J	0.544	1.09		1

The recovery of N-Nitrosodimethylamine was outside of QC limits in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	65		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.077	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.075	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.037	J	0.030	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.030	U	0.030	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.1		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0024	U	0.0024	0.012		1
00177	Alpha BHC	319-84-6	0.0035	U	0.0035	0.012		1
00177	Beta BHC	319-85-7	0.0034	U	0.0034	0.012		1
00177	Gamma BHC - Lindane	58-89-9	0.0024	U	0.0024	0.012		1
00177	Chlordane	57-74-9	0.14	U	0.14	0.59		1
00177	p,p-DDD	72-54-8	0.0059	U	0.0059	0.024		1
00177	p,p-DDE	72-55-9	0.0059	U	0.0059	0.024		1
00177	p,p-DDT	50-29-3	0.0059	U	0.0059	0.024		1
00177	Delta BHC	319-86-8	0.0034	U	0.0034	0.012		1
00177	Dieldrin	60-57-1	0.0063	U	0.0063	0.024		1
00177	Endosulfan I	959-98-8	0.0051	U	0.0051	0.012		1
00177	Endosulfan II	33213-65-9	0.018	U	0.018	0.024		1
00177	Endosulfan Sulfate	1031-07-8	0.0069	U	0.0069	0.024		1
00177	Endrin	72-20-8	0.0096	U	0.0096	0.024		1
00177	Endrin Aldehyde	7421-93-4	0.024	U	0.024	0.12		1
00177	Endrin Ketone	53494-70-5	0.0059	U	0.0059	0.024		1
00177	Heptachlor	76-44-8	0.0031	U	0.0031	0.012		1
00177	Heptachlor Epoxide	1024-57-3	0.0027	U	0.0027	0.012		1
00177	Methoxychlor	72-43-5	0.035	U	0.035	0.12		1
00177	Mirex	2385-85-5	0.10	U	0.10	0.30		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Toxaphene	8001-35-2	1.2	U	1.2	3.5		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.12	U	0.12	0.59		1
10227	Aroclor 5442	12642-23-8	0.12	U	0.12	0.59		1
10227	Aroclor 5460	11126-42-4	0.12	U	0.12	0.59		1
10227	PCB-1016	12674-11-2	0.12	U	0.12	0.59		1
10227	PCB-1221	11104-28-2	0.12	U	0.12	0.59		1
10227	PCB-1232	11141-16-5	0.24	U	0.24	0.59		1
10227	PCB-1242	53469-21-9	0.12	U	0.12	0.59		1
10227	PCB-1248	12672-29-6	0.12	U	0.12	0.59		1
10227	PCB-1254	11097-69-1	0.12	U	0.12	0.59		1
10227	PCB-1260	11096-82-5	0.18	U	0.18	0.59		1
10227	PCB-1262	37324-23-5	0.24	U	0.24	0.59		1
10227	PCB-1268	11100-14-4	0.19	U	0.19	0.59		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.076	U	0.076	0.24		1
10319	o-Terphenyl	84-15-1	0.076	U	0.076	0.24		1
10319	p-Terphenyl	92-94-4	0.076	U	0.076	0.24		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.68		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0043	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01757	Magnesium	7439-95-4	0.0067 U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047 U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00045 J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046 J	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00050 J	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00035 J	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.8	0.010	0.010		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y113402AA	12/06/2011 17:51	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E113391AA	12/05/2011 12:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E113391AA	12/05/2011 12:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y113402AA	12/06/2011 17:51	Chelsea B Eastep	1
10962	21b NDMA by 1625C	EPA 1625C	1	11340WAA026	12/09/2011 12:52	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11340WAC026	12/12/2011 08:45	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11340WAG026	12/16/2011 16:42	Dale R Stoneroad	1
00813	BNA Water Extraction	SW-846 3510C	1	11340WAC026	12/06/2011 18:45	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11340WAG026	12/07/2011 08:40	Catherine R Wiker	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11340WAA026	12/06/2011 14:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11340A20A	12/07/2011 04:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11340A20A	12/07/2011 04:39	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	113400003A	12/13/2011 01:19	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	113370002A	12/05/2011 19:27	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	113370019A	12/06/2011 22:33	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	113400050A	12/09/2011 19:27	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113400049A	12/12/2011 05:27	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113400049A	12/07/2011 13:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	113400050A	12/07/2011 13:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	113370019A	12/05/2011 08:30	Kerrie A Freeburn	1
01013	Formaldehyde Extraction	SW-846 8315A	1	113370002A	12/03/2011 08:40	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	113400003A	12/06/2011 16:20	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113390042A	12/06/2011 20:52	Elizabeth J Marin	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113390042A	12/07/2011 18:37	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	113400056A	12/07/2011 04:14	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	113400019A	12/07/2011 13:55	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113390010A	12/08/2011 05:20	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	113390010A	12/05/2011 17:52	Bronson L Cole	1
10304	Terphenyls water prep	SW-846 3510C	1	113400019A	12/06/2011 22:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
08014	Boron	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01750	Calcium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01754	Iron	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01756	Lithium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07058	Manganese	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01762	Potassium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07069	Tin	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
06024	Antimony	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113416050004D	12/10/2011 07:36	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113416050004C	12/10/2011 07:36	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	113416050004B	12/10/2011 07:36	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113405713003	12/09/2011 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113411848003	12/09/2011 09:22	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113416050004	12/09/2011 09:19	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113405713003	12/08/2011 15:23	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11337373601A	12/03/2011 12:49	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11337373601A	12/03/2011 12:49	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11336281101A	12/02/2011 12:50	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11335495401B	12/02/2011 11:17	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11341117101B	12/07/2011 17:40	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11341117101B	12/07/2011 09:40	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11341020003A	12/07/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E113391AA	Sample number(s): 6487693									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	107	80-123	6	30
Batch number: Y113402AA	Sample number(s): 6487693									
Acetone	6	U	6.	20	ug/l	101	101	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	102	99	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	107	107	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	93	91	80-120	2	30
Bromoform	1	U	1.	5	ug/l	94	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	77	76	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	111	107	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	115	112	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	97	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	94	90	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	98	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	81	77	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	94	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	98	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	101	91	60-129	10	30
2-Chlorotoluene	1	U	1.	5	ug/l	108	107	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	105	101	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	91	38-136	8	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	100	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	96	95	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	103	102	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	105	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	104	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	88	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	96	79-120	4	30
1,2-Dichloroethane	1	U	1.	5	ug/l	92	91	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	88	74-123	8	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	97	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	98	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	100	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	88	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	96	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	95	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	101	99	79-120	2	30
Freon 113	2	U	2.	10	ug/l	99	92	69-128	7	30
Freon 133a	2	U	2.	5	ug/l	88	93	77-120	6	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	101	99	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	98	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	101	98	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	109	107	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	107	109	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	117	113	80-120	3	30
Styrene	1	U	1.	5	ug/l	95	91	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	112	113	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	94	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	104	102	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	102	102	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	93	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	87	84	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	108	106	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	111	110	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	109	106	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	92	88	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	97	94	80-120	3	30
Batch number: 11337SLC026	Sample number(s): 6487688-6487692									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	103		75-122		
Aniline	170 U		170.	500	ug/kg	60		20-115		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	35		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	95		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	100		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	91		74-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	50		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	78		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	103		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	92		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	86		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	94		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11339SLD026	Sample number(s): 6487689-6487692									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	107		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		73-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	109		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	118		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	111		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	113		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	102		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	102		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	104		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		72-119		
Batch number: 11340WAA026	Sample number(s): 6487693									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	77	63*	70-130	20	30
Batch number: 11340WAC026	Sample number(s): 6487693									
Aniline	1	U	1.	5	ug/l	83	77	38-116	7	30
Benzidine	20	U	20.	60	ug/l	79	70	34-117	13	30
Benzoic acid	6	U	6.	15	ug/l	38	34	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	80	74	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	96	75-115	1	30
Carbazole	1	U	1.	5	ug/l	97	97	75-120	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	84	85	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	81	76	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	93	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	91	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	88	88	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	77	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	86	85	71-114	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	93	93	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	91	90	75-117	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	84	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	83	61-111	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	81	53-119	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	73	65	37-117	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	92	77-117	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	90	87	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	91	90	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	102	65-126	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	88	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	94	76-119	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	97	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	96	68-127	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	97	75-119	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	84	86	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	77	74	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	81	79	52-113	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	1	U	1.	5	ug/l	92	94	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	79	73	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	69	65	49-108	6	30
2-Nitroaniline	1	U	1.	5	ug/l	96	96	75-120	0	30
3-Nitroaniline	1	U	1.	5	ug/l	93	91	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	71	66	59-100	7	30
Nitrobenzene	1	U	1.	5	ug/l	90	94	75-109	4	30
2-Nitrophenol	1	U	1.	5	ug/l	93	94	76-118	1	30
4-Nitrophenol	10	U	10.	30	ug/l	35	33	16-78	9	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	85	85	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	98	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	97	97	53-110	0	30
Phenol	1	U	1.	5	ug/l	42	37	21-67	12	30
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	90	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	95	94	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	95	94	76-120	1	30
Batch number: 11340WAG026	Sample number(s): 6487693									
Acenaphthene	0.010	U	0.010	0.050	ug/l	100	98	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	104	99	70-110	5	30
Anthracene	0.010	U	0.010	0.050	ug/l	103	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	97	98	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	99	98	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	108	106	58-151	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	95	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	103	103	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	95	95	40-138	0	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	113	108	56-148	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	94	76-116	5	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	97	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	111	107	37-148	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	105	100	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	101	101	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	95	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	112	95	75-114	16	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	99	97	53-158	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	97	93	71-117	4	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	93	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	97	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	63	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	99	100	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	99	97	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	95	69-118	4	30
Batch number: 11340A20A	Sample number(s): 6487693									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 113400003A	Sample number(s): 6487693									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	100	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	72-117	10	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	97	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
HMX	0.65	U	0.65	2.0	ug/l	96	98	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	88	92	75-121	4	30

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitroglycerin	5.2	U	5.2	15	ug/l	96	100	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	94	74-120	2	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	97	99	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	91	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	95	98	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	89	89	31-148	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	81	88	53-129	8	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 113370002A	Sample number(s): 6487693									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	104	106	69-130	2	30
Batch number: 113370019A	Sample number(s): 6487693									
2,4-D	0.16	U	0.16	0.50	ug/l	96	96	73-157	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	81	84	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	96	65-130	0	30
Dicamba	0.080	U	0.080	0.30	ug/l	112	116	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	88	88	32-91	0	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	104	112	76-170	7	30
MCPA	300 U		300.	1,000	ug/l	96	102	65-128	6	30
MCPP	50	U	50.	200	ug/l	108	108	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	100	104	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	96	100	63-134	4	30
Batch number: 113400037A	Sample number(s): 6487688									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	30		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	96		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	106		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	11		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	102		62-170		
MCPA	76	U	76.	250	ug/kg	102		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	101		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	99		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 113390023A	Sample number(s): 6487688									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	68		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	71		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	84		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	82		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	69		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	78		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	85		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	76		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	68		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	85		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	74		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	79		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	78		59-125		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 113400026A	Sample number(s): 6487688-6487692									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	77		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113400049A	Sample number(s): 6487693									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	78	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	82	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	98	92	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 113400050A	Sample number(s): 6487693									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	111	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	100	110	59-146	10	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	73-147	10	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	100	100	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	125	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	115	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	91	93	68-128	2	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	130	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	90	90	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	125	125	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	100	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	110	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 113360017A	Sample number(s): 6487688									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100		100.	500	ug/kg	97		75-125		

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Methanol	100	U	100.	500	ug/kg	81		68-129		
Batch number: 113390042A	Sample number(s): 6487693									
Ethanol	200	U	200.	1,000	ug/l	108		78-116		
Isopropanol	200	U	200.	1,000	ug/l	104		75-125		
Methanol	200	U	200.	1,000	ug/l	112		76-122		
Batch number: 113400056A	Sample number(s): 6487693									
Diethylene glycol	10	U	10.	100	mg/l	110		67-126		
Ethylene glycol	10	U	10.	100	mg/l	80		78-136		
Propylene glycol	10	U	10.	100	mg/l	80		65-132		
Batch number: 113420018A	Sample number(s): 6487688									
Diethylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	107		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 113390010A	Sample number(s): 6487693									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	86	76	63-121	12	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	87	77	72-124	11	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	64-123	17	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	73	73-124	17	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	88	78	43-107	12	30
Batch number: 113390013A	Sample number(s): 6487688									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		69-109		
Batch number: 113400014A	Sample number(s): 6487688									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	81		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	84		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	88		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	65		49-107		
Batch number: 113400019A	Sample number(s): 6487693									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	96	100	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	96	98	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	96	98	63-110	2	20
Batch number: 113391026002A	Sample number(s): 6487688-6487692									
Antimony	0.0705	U	0.0705	0.190	mg/kg	74		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	102		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	103		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	103		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	115		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	104		81-110		
Lead	0.0126	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	100		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	104		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	101		82-112		

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Vanadium	0.0210 U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.838 J	0.533	2.86	mg/kg	101		82-110		
Batch number: 113391026002B	Sample number(s): 6487688-6487692								
Selenium	0.0675 J	0.0552	0.381	mg/kg	96		79-110		
Batch number: 113391026002C	Sample number(s): 6487688-6487692								
Molybdenum	0.0476 U	0.0476	0.0952	mg/kg	100		80-110		
Batch number: 113391026002D	Sample number(s): 6487688-6487692								
Barium	0.101 U	0.101	0.381	mg/kg	102		83-110		
Batch number: 113395708002	Sample number(s): 6487688-6487692								
Aluminum	6.05 U	6.05	20.0	mg/kg	83		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	106		83-110		
Calcium	4.62 J	2.50	20.0	mg/kg	102		81-110		
Iron	4.80 J	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	4.81 J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0360 U	0.0360	0.500	mg/kg	103		85-116		
Phosphorus	0.983 J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	98		71-110		
Sodium	5.95 U	5.95	100	mg/kg	99		76-110		
Strontium	0.0250 U	0.0250	0.500	mg/kg	103		84-110		
Tin	1.52 J	0.320	10.0	mg/kg	105		86-120		
Titanium	0.0710 U	0.0710	1.00	mg/kg	87		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	96		80-120		
Batch number: 113395711003	Sample number(s): 6487688-6487692								
Mercury	0.0067 U	0.0067	0.0947	mg/kg	92		83-119		
Batch number: 113405713003	Sample number(s): 6487693								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	102	101	80-120	1	20
Batch number: 113411848003	Sample number(s): 6487693								
Aluminum	0.0801 U	0.0801	0.200	mg/l	101	100	90-112	1	20
Boron	0.0022 U	0.0022	0.0500	mg/l	96	96	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	104	105	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	117*	105	90-112	11	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	101	101	90-110	0	20
Magnesium	0.0430 J	0.0067	0.100	mg/l	107	107	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	100	101	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	101	90-110	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	106	106	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	102	102	87-114	0	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	100	101	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	99	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	0	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	103	90-110	1	20
Batch number: 113416050004A	Sample number(s): 6487693								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	109	87-110	3	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	110	110	86-111	0	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	108	90-113	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	109	110	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	109	111	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	113	112	87-113	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.00038 U	0.00038	0.0020	mg/l	112	113	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	104	107	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	107	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	109	107	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	105	101	89-116	4	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	110	109	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	110	110	90-116	0	20
Batch number: 113416050004B	Sample number(s): 6487693								
Selenium	0.00027 U	0.00027	0.0020	mg/l	103	105	85-114	2	20
Batch number: 113416050004C	Sample number(s): 6487693								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	108	107	89-115	1	20
Batch number: 113416050004D	Sample number(s): 6487693								
Barium	0.00069 U	0.00069	0.0020	mg/l	108	106	88-113	2	20
Batch number: 11335495401B	Sample number(s): 6487693								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99	100	90-110	1	20
Batch number: 11336281101A	Sample number(s): 6487693								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	107	101	85-115	5	20
Batch number: 11337373601A	Sample number(s): 6487693								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	102	90-110	1	20
Batch number: 11339102201B	Sample number(s): 6487688								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11341117101B	Sample number(s): 6487693								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	102	108	90-110	6	20
Batch number: 11341243202A	Sample number(s): 6487688-6487692								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11342342201B	Sample number(s): 6487688-6487692								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11348621201A	Sample number(s): 6487688-6487691								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11348621201B	Sample number(s): 6487692								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11341020003A	Sample number(s): 6487693								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11346039401B	Sample number(s): 6487688-6487692								
17a pH by 9045C					100		95-105		
Batch number: 11343162401B	Sample number(s): 6487688-6487692								
Moisture Content by 160.3					100		80-120		

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11337SLC026	Sample number(s): 6487688-6487692 UNSPK: P487630								
Acenaphthene	90	92	75-115	2	30				
Acenaphthylene	102	102	81-110	0	30				
Aniline	0*	0*	18-116	0	30				
Anthracene	95	93	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	85	85	65-122	1	30				
Benzo(a)pyrene	99	100	57-126	1	30				
Benzo(b)fluoranthene	94	91	59-125	3	30				
Benzo(g,h,i)perylene	96	102	59-127	6	30				
Benzo(k)fluoranthene	94	93	56-132	1	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	0*	0*	67-115	0	30				
4-Bromophenyl-phenylether	94	92	67-129	2	30				
Butylbenzylphthalate	98	91	73-134	6	30				
Di-n-butylphthalate	95	91	67-123	4	30				
Carbazole	96	91	64-120	5	30				
4-Chloro-3-methylphenol	91	83	62-122	9	30				
4-Chloroaniline	65	63	13-107	3	30				
bis(2-Chloroethoxy)methane	88	84	75-104	4	30				
bis(2-Chloroethyl)ether	85	85	60-116	0	30				
bis(2-Chloroisopropyl)ether	87	89	55-142	3	30				
2-Chloronaphthalene	86	76	50-141	11	30				
2-Chlorophenol	92	91	73-121	1	30				
4-Chlorophenyl-phenylether	88	88	80-109	0	30				
Chrysene	86	82	62-128	4	30				
Dibenz(a,h)anthracene	93	94	65-125	2	30				
Dibenzofuran	90	89	71-112	1	30				
1,2-Dichlorobenzene	92	86	66-108	7	30				
1,3-Dichlorobenzene	86	88	63-109	2	30				
1,4-Dichlorobenzene	88	87	58-108	1	30				
3,3'-Dichlorobenzidine	60	61	28-109	1	30				
2,4-Dichlorophenol	96	89	66-123	8	30				
Diethylphthalate	91	93	66-118	2	30				
2,4-Dimethylphenol	89	92	68-118	3	30				
3,5-Dimethylphenol	99	95	71-127	5	30				
Dimethylphthalate	89	90	64-118	1	30				
4,6-Dinitro-2-methylphenol	0*	0*	11-126	0	30				
2,4-Dinitrophenol	114	108	20-143	5	30				
2,4-Dinitrotoluene	80	79	56-129	1	30				
2,6-Dinitrotoluene	83	88	69-123	7	30				
1,2-Diphenylhydrazine	92	91	71-129	1	30				
bis(2-Ethylhexyl)phthalate	92	90	63-122	3	30				
Fluoranthene	98	94	73-112	4	30				
Fluorene	93	94	63-121	2	30				
Hexachlorobenzene	90	83	77-114	8	30				
Hexachlorobutadiene	89	96	62-120	7	30				
Hexachlorocyclopentadiene	81	71	10-153	12	30				
Hexachloroethane	87	87	57-109	0	30				
Indeno(1,2,3-cd)pyrene	92	93	61-126	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	88	84	73-102	4	30				
1-Methylnaphthalene	85	80	64-122	5	30				
2-Methylnaphthalene	88	85	76-114	3	30				
2-Methylphenol	96	89	75-111	7	30				
4-Methylphenol	87	80	59-123	8	30				
Naphthalene	92	88	72-116	4	30				
2-Nitroaniline	86	90	67-125	6	30				
3-Nitroaniline	80	78	59-122	1	30				
4-Nitroaniline	70	78	41-109	12	30				
Nitrobenzene	89	89	57-125	0	30				
2-Nitrophenol	85	85	56-127	0	30				
4-Nitrophenol	0*	0*	37-129	0	30				
N-Nitroso-di-n-propylamine	76	85	60-116	11	30				
N-Nitrosodimethylamine	88	84	47-116	4	30				
N-Nitrosodiphenylamine	96	93	71-122	3	30				
Di-n-octylphthalate	104	106	56-126	2	30				
Pentachlorophenol	155*	154*	28-127	1	30				
Phenanthrene	94	92	65-125	2	30				
Phenol	85	85	58-126	1	30				
Pyrene	94	91	74-126	4	30				
1,2,4-Trichlorobenzene	88	88	72-115	0	30				
2,4,5-Trichlorophenol	99	93	58-129	6	30				
2,4,6-Trichlorophenol	87	92	56-134	6	30				
Batch number: 11339SLD026	Sample number(s): 6487689-6487692 UNSPK: P487630								
Acenaphthene	101	94	63-105	7	30				
Acenaphthylene	110	108	67-114	2	30				
Anthracene	118*	118*	73-115	0	30				
Benzo(a)anthracene	131*	118	59-128	11	30				
Benzo(a)pyrene	126	143*	58-142	12	30				
Benzo(b)fluoranthene	192*	208*	54-163	8	30				
Benzo(g,h,i)perylene	79	79	33-141	0	30				
Benzo(k)fluoranthene	139	142	57-153	2	30				
Butylbenzylphthalate	155	174*	57-173	12	30				
Di-n-butylphthalate	148	167*	65-148	12	30				
Chrysene	154*	152*	67-123	1	30				
Dibenz(a,h)anthracene	65	62	22-133	6	30				
Diethylphthalate	139*	142*	70-136	2	30				
Dimethylphthalate	148*	148*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	170*	729*	39-167	124*	30				
Fluoranthene	135	120	51-149	12	30				
Fluorene	111	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	53	62	21-143	15	30				
1-Methylnaphthalene	109	95	72-123	13	30				
2-Methylnaphthalene	106*	94	64-103	12	30				
Naphthalene	108*	100	61-102	8	30				
N-Nitrosodimethylamine	109	92	48-113	17	30				
Di-n-octylphthalate	151	189	40-192	23	30				
Phenanthrene	113	103	62-122	9	30				
Pyrene	148*	127	51-131	15	30				
Batch number: 113400037A	Sample number(s): 6487688 UNSPK: P487630								
2,4-D	99	85	17-180	15	35				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dalapon	37	36	10-125	3	50				
2,4-DB	81	74	10-201	9	50				
Dicamba	139	102	10-190	30	50				
Dinoseb	24	22	10-46	9	35				
2,4-DP (Dichlorprop)	113	94	33-178	18	50				
MCPA	149	112	10-213	26	50				
MCPP (Mecoprop)	138	71	10-184	64*	50				
2,4,5-T	89	84	10-156	6	35				
2,4,5-TP	93	72	24-141	25	35				
Batch number: 113390023A	Sample number(s): 6487688 UNSPK: P487630								
Aldrin	30	0*	16-126	200*	50				
Alpha BHC	0*	16	10-129	200*	50				
Beta BHC	31	0*	14-147	200*	50				
Gamma BHC - Lindane	32	15	10-140	72*	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	54	26	18-161	69*	50				
p,p-DDT	0*	0*	10-176	0	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	0*	34	28-154	200*	50				
Endosulfan Sulfate	31	0*	21-160	200*	50				
Endrin	40	21	11-149	63*	50				
Endrin Aldehyde	11	30	10-148	38*	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	29	0*	13-126	200*	50				
Heptachlor Epoxide	36	12*	13-157	104*	50				
Methoxychlor	29*	21*	32-147	29	50				
Batch number: 113400026A	Sample number(s): 6487688-6487692 UNSPK: P488950								
PCB-1016	63	74	29-146	17	50				
PCB-1260	72	93	39-149	26	50				
Batch number: 113360017A	Sample number(s): 6487688 UNSPK: P487630								
Ethanol	81	80	48-130	2	20				
Isopropanol	88	88	12-149	1	20				
Methanol	65	62	43-138	6	20				
Batch number: 113390042A	Sample number(s): 6487693 UNSPK: P487124								
Ethanol	112	112	62-145	0	20				
Isopropanol	104	104	73-131	0	20				
Methanol	112	112	52-159	0	20				
Batch number: 113400056A	Sample number(s): 6487693 UNSPK: 6487693								
Diethylene glycol	105	120	83-130	13	20				
Ethylene glycol	90	125	89-125	33*	20				
Propylene glycol	90*	125	91-128	33*	20				
Batch number: 113420018A	Sample number(s): 6487688 UNSPK: P487630								
Diethylene glycol	24*	23*	59-109	1	20				
Ethylene glycol	68	68	63-107	1	20				
Propylene glycol	77	77	63-107	0	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113390013A	Sample number(s): 6487688 UNSPK: P487630								
m-Terphenyl	97	94	75-125	3	20				
o-Terphenyl	98	96	75-125	2	20				
p-Terphenyl	96	94	75-125	2	20				
Batch number: 113400014A	Sample number(s): 6487688 UNSPK: P487630								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	147 (2)	-288 (2)	49-123	6	20				
EFH (C30 - C40)	-4209 (2)	-3930 (2)	49-123	1	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 113391026002A	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Antimony	43*	37*	75-125	12	20	0.115 J	0.0712 U	200* (1)	20
Arsenic	277*	165*	75-125	26*	20	4.22	3.91	7	20
Beryllium	204*	120	75-125	39*	20	0.478	0.465	3 (1)	20
Cadmium	188*	127*	75-125	35*	20	0.230	0.195	16 (1)	20
Chromium	263*	155*	75-125	28*	20	17.9	15.8	12	20
Cobalt	191*	128*	75-125	37*	20	6.73	5.67	17	20
Copper	257*	136*	75-125	39*	20	11.9	9.17	26*	20
Lead	329*	78	75-125	46*	20	10.2	6.14	50*	20
Nickel	256*	145*	75-125	35*	20	12.4	11.1	11	20
Silver	175*	124	75-125	35*	20	0.0492 J	0.0352 J	33* (1)	20
Thallium	202*	136*	75-125	29*	20	0.247	0.195	24* (1)	20
Vanadium	348*	191*	75-125	25*	20	37.8	33.3	13	20
Zinc	477 (2)	214 (2)	75-125	26*	20	69.1	58.2	17	20
Batch number: 113391026002B	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Selenium	131*	131*	75-125	1	20	0.257 J	0.521	68* (1)	20
Batch number: 113391026002C	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Molybdenum	179*	125	75-125	35*	20	0.915	0.649	34*	20
Batch number: 113391026002D	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Barium	550 (2)	130 (2)	75-125	31*	20	102	77.7	27*	20
Batch number: 113395708002	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Aluminum	611 (2)	863 (2)	75-125	3	20	13,400	12,600	6	20
Boron	98	99	84-115	1	20	4.59 J	3.87 J	17 (1)	20
Calcium	287 (2)	386 (2)	75-125	7	20	4,640	5,580	18	20
Iron	-2297 (2)	-1472 (2)	75-125	4	20	20,900	19,500	7	20
Lithium	100	98	82-114	1	20	21.3	20.2	5	20
Magnesium	97 (2)	200 (2)	75-125	4	20	4,860	4,940	2	20
Manganese	-31 (2)	6 (2)	75-125	6	20	308	258	18	20
Phosphorus	128*	118	75-125	2	20	368	382	4	20
Potassium	105	101	75-125	1	20	2,470	2,420	2	20
Sodium	98	98	75-125	1	20	138	136	2 (1)	20
Strontium	103	102	75-115	0	20	19.8	21.1	6	20
Tin	92	89	80-110	2	20	2.55 J	2.40 J	6 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Titanium	168 (2)	265 (2)	75-125	8	20	1,030		1,020		1	20
Zirconium	100	102	81-110	3	20	2.10	J	4.87		79* (1)	20
Batch number: 113395711003	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630										
Mercury	106	70	65-135	8	20	0.528		0.478		10	20
Batch number: 11335495401B	Sample number(s): 6487693 UNSPK: P487411 BKG: P487411										
3b Cr VI by EPA 7199	110		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11339102201B	Sample number(s): 6487688 UNSPK: P487640 BKG: P487640										
16a Cyanide by 9012B	102		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11341243202A	Sample number(s): 6487688-6487692 UNSPK: P488950 BKG: P488950										
3a Cr VI by EPA 7199	108		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11342342201B	Sample number(s): 6487688-6487692 UNSPK: P487641 BKG: P487641										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11348621201A	Sample number(s): 6487688-6487691 UNSPK: P488950 BKG: P488950										
11a Anions by 300.0 - Fluoride	98		80-120			0.80	U	1.1		200* (1)	20
Batch number: 11348621201B	Sample number(s): 6487692 UNSPK: 6487692 BKG: 6487692										
11a Anions by 300.0 - Fluoride	91		80-120			2.2		3.5		45* (1)	20
Batch number: 11346039401B	Sample number(s): 6487688-6487692 BKG: 6487692										
17a pH by 9045C						8.35		8.39		0	3
Batch number: 11343162401B	Sample number(s): 6487688-6487692 BKG: P487644										
Moisture Content by 160.3						11.6		11.7		0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E113391AA

	Toluene-d8
6487693	100
Blank	101
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y113402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

6487693	95	99	99	95
Blank	95	98	99	95
LCS	96	101	102	100
LCSD	95	101	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11337SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487688	90	95	66	81	89	82
6487689	93	100	72	87	94	93
6487690	95	101	62	85	93	89
6487691	93	96	91	84	89	84
6487692	94	98	87	85	90	87
Blank	92	98	94	86	88	86
LCS	91	96	93	88	91	85
MS	90	94	86	84	87	79
MSD	90	93	87	83	88	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11339SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487689	99	95	107
6487690	95	100	99
6487691	97	89	101
6487692	96	69	98
Blank	108	104	110
LCS	110	99	103
MS	118	107	113
MSD	109	92	109
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11340WAA026

	N-Nitrosodimethylamine-d6
6487693	168*
Blank	170*
LCS	137
LCSD	170*
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11340WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487693	48	29	91	86	87	84
Blank	47	29	90	86	87	83
LCS	58	36	90	87	91	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

LCSD	51	32	91	89	90	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11340WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487693	98	91	99
Blank	93	94	95
LCS	102	101	98
LCSD	101	90	91
Limits:	64-147	68-132	53-129

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11340A20A

	Trifluorotoluene-F
6487693	97
Blank	96
LCS	116
LCSD	117
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 113370002A

	Butyraldehyde
6487693	98
Blank	101
LCS	104
LCSD	98
Limits:	45-145

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 113370019A

	2,4-Dichlorophenylacetic acid
6487693	97
Blank	89
LCS	100
LCSD	104
Limits:	35-144

Analysis Name: 12a Pesticides by 8081A
Batch number: 113390023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487688	27*	0*
Blank	58	92
LCS	67	88
MS	37*	144*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

MSD	18*	153*
Limits:	50-130	20-120

Analysis Name: 15b Energetics by 8330A
Batch number: 113400003A

	2-Nitro-m-xylene
6487693	90
Blank	90
LCS	94
LCSD	93
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113400026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487688	79	54
6487689	83	55
6487690	89	95
6487691	87	92
6487692	89	96
Blank	71	82
LCS	92	108
LCSD	91	106
MS	75	84
MSD	91	100
Limits:	53-139	53-142

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 113400037A

	2,4-Dichlorophenylacetic acid
6487688	118
Blank	99
LCS	110
MS	138
MSD	124
Limits:	36-156

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 113400049A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487693	90	102
Blank	91	63
LCS	94	82
LCSD	91	75
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

Batch number: 113400050A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487693	96	104
Blank	97	73
LCS	99	98
LCSD	101	97
Limits:	52-141	40-144

Analysis Name: 18a Alcohols by 8015B
Batch number: 113360017A

	Acetone
6487688	87
Blank	95
LCS	94
MS	87
MSD	92
Limits:	42-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 113390010A

	Chlorobenzene	Orthoterphenyl
6487693	79	92
Blank	80	87
LCS	78	87
LCSD	67	76
Limits:	28-152	52-131

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113390013A

	n-Triacontane-d62
6487688	80
Blank	72
LCS	72
MS	105
MSD	93
Limits:	19-152

Analysis Name: 18b Alcohols by 8015B
Batch number: 113390042A

	Acetone
6487693	96
Blank	98
LCS	98
MS	98
MSD	98
Limits:	54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113400014A

	Chlorobenzene	Orthoterphenyl
6487688	84	89
Blank	65	74
LCS	69	81
MS	71	77
MSD	74	84
Limits:	37-125	47-145

Analysis Name: 22b Terphenyls by 8015B
Batch number: 113400019A

	n-Triacontane-d62
6487693	71
Blank	75
LCS	74
LCSD	73
Limits:	17-138

Analysis Name: 19b Glycols by 8015B
Batch number: 113400056A

	Tetramethylene glycol
6487693	98
Blank	105
LCS	107
MS	109
MSD	120
Limits:	29-157

Analysis Name: 19a Glycols by 8015B
Batch number: 113420018A

	Tetramethylene glycol
6487688	89
Blank	98
LCS	98
MS	89
MSD	89
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1279187 Sample#6487688-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	1-SS Sleeve			X	X																	
DUP17-SA8-QC-120111	12.01.11	0825	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X					X	X	X	X	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-SS Sleeve			X	X																	
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	12/01/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 5007, 5029	Suzette Lehman 12/2/11 0915

acct#13013 Ap#1279187 Sample# 6487688-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X				X			X	X		X			
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X																
EB-SA6-SB-120111	12.01.11	1400	WATER	HNO3	1-500 mL poly	X																							
EB-SA6-SB-120111	12.01.11	1400	WATER	NaOH	1-500 mL poly																				X				
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-250 mL glass																	X							
EB-SA6-SB-120111	12.01.11	1400	WATER	HCL	11-40 mL vials												X	X	X									X	
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	4-40 mL vials																X						X		

Relinquished by: (Signature) — Date/Time: 12/01/2011 / 1630 — Received for Laboratory by: (Signature): Suzette Lehman — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8767 9857 5007, 5029

12/2/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/02/2011
Group Number: 1279188
SDG: DX156
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP17-SA6-QC-120111 Soil	6487694
SL-023-SA8S-SB-4.0-5.0 Soil	6487695
SL-023-SA8S-SB-9.0-10.0 Soil	6487696
SL-022-SA8S-SB-4.0-5.0 Soil	6487697
SL-022-SA8S-SB-8.0-9.0 Soil	6487698
EB-SA6-SB-120111 Water	6487699

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JBQ	0.0125	1.05	1
11031	12378-PeCDD	40321-76-4	0.299	JB	0.0263	5.25	1
11031	123478-HxCDD	39227-28-6	0.857	JB	0.0387	5.25	1
11031	123678-HxCDD	57653-85-7	2.87	JB	0.0412	5.25	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0411	5.25	1
11031	1234678-HpCDD	35822-46-9	125	B	0.0685	5.25	1
11031	OCDD	3268-87-9	1,990	B	0.0414	10.5	1
11031	2378-TCDF	51207-31-9	0.159	JBQ	0.0338	1.05	1
11031	12378-PeCDF	57117-41-6	1.44	JB	0.0254	5.25	1
11031	23478-PeCDF	57117-31-4	0.313	JBQ	0.0231	5.25	1
11031	123478-HxCDF	70648-26-9	0.783	JB	0.0298	5.25	1
11031	123678-HxCDF	57117-44-9	0.551	JB	0.0296	5.25	1
11031	123789-HxCDF	72918-21-9	0.249	JB	0.0298	5.25	1
11031	234678-HxCDF	60851-34-5	0.684	JB	0.0292	5.25	1
11031	1234678-HpCDF	67562-39-4	12.5	B	0.0206	5.25	1
11031	1234789-HpCDF	55673-89-7	1.24	JB	0.0237	5.25	1
11031	OCDF	39001-02-0	37.2	B	0.0137	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 18:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0118 JB	0.00955	1.12	1
11031	12378-PeCDD	40321-76-4	0.0222 JBQ	0.00875	5.60	1
11031	123478-HxCDD	39227-28-6	0.0201 JB	0.0103	5.60	1
11031	123678-HxCDD	57653-85-7	0.0349 JB	0.0111	5.60	1
11031	123789-HxCDD	19408-74-3	0.0346 JBQ	0.0100	5.60	1
11031	1234678-HpCDD	35822-46-9	0.363 JB	0.0113	5.60	1
11031	OCDD	3268-87-9	1.37 JB	0.0103	11.2	1
11031	2378-TCDF	51207-31-9	0.0156 JBQ	0.0106	1.12	1
11031	12378-PeCDF	57117-41-6	0.0333 JBQ	0.00466	5.60	1
11031	23478-PeCDF	57117-31-4	0.0701 JB	0.00477	5.60	1
11031	123478-HxCDF	70648-26-9	0.0444 JB	0.00625	5.60	1
11031	123678-HxCDF	57117-44-9	0.0306 JB	0.00523	5.60	1
11031	123789-HxCDF	72918-21-9	0.0357 JB	0.00614	5.60	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.00557	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0967 JBQ	0.00682	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0504 JBQ	0.0105	5.60	1
11031	OCDF	39001-02-0	0.150 JB	0.0115	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 19:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0266 JBQ	0.0111	1.10	1
11031	12378-PeCDD	40321-76-4	0.0272 JBQ	0.0106	5.48	1
11031	123478-HxCDD	39227-28-6	0.0140 JBQ	0.0104	5.48	1
11031	123678-HxCDD	57653-85-7	0.0308 JBQ	0.0105	5.48	1
11031	123789-HxCDD	19408-74-3	0.0336 JBQ	0.0103	5.48	1
11031	1234678-HpCDD	35822-46-9	0.277 JB	0.00997	5.48	1
11031	OCDD	3268-87-9	0.609 JB	0.00997	11.0	1
11031	2378-TCDF	51207-31-9	0.0227 JB	0.0123	1.10	1
11031	12378-PeCDF	57117-41-6	0.0271 JBQ	0.00609	5.48	1
11031	23478-PeCDF	57117-31-4	0.0637 JBQ	0.00520	5.48	1
11031	123478-HxCDF	70648-26-9	0.0386 JB	0.00653	5.48	1
11031	123678-HxCDF	57117-44-9	0.0327 JBQ	0.00554	5.48	1
11031	123789-HxCDF	72918-21-9	0.0419 JB	0.00598	5.48	1
11031	234678-HxCDF	60851-34-5	0.0394 JB	0.00554	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0998 JB	0.00598	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0371 JBQ	0.00797	5.48	1
11031	OCDF	39001-02-0	0.118 JBQ	0.00886	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 20:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0172 JBQ	0.00911	1.10	1
11031	12378-PeCDD	40321-76-4	0.0331 JBQ	0.0103	5.51	1
11031	123478-HxCDD	39227-28-6	0.0181 JB	0.00877	5.51	1
11031	123678-HxCDD	57653-85-7	0.0272 JB	0.00911	5.51	1
11031	123789-HxCDD	19408-74-3	0.0329 JBQ	0.00855	5.51	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0107	5.51	1
11031	OCDD	3268-87-9	0.745 JB	0.00979	11.0	1
11031	2378-TCDF	51207-31-9	0.0185 JBQ	0.0124	1.10	1
11031	12378-PeCDF	57117-41-6	0.0343 JBQ	0.00517	5.51	1
11031	23478-PeCDF	57117-31-4	0.0748 JB	0.00506	5.51	1
11031	123478-HxCDF	70648-26-9	0.0318 JB	0.00619	5.51	1
11031	123678-HxCDF	57117-44-9	0.0284 JB	0.00517	5.51	1
11031	123789-HxCDF	72918-21-9	0.0344 JB	0.00641	5.51	1
11031	234678-HxCDF	60851-34-5	0.0370 JB	0.00551	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0888 JBQ	0.00439	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0318 JBQ	0.00664	5.51	1
11031	OCDF	39001-02-0	0.133 JB	0.0105	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 21:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0113 JB	0.0106	1.08	1
11031	12378-PeCDD	40321-76-4	0.0244 JBQ	0.00852	5.41	1
11031	123478-HxCDD	39227-28-6	0.0147 JBQ	0.00966	5.41	1
11031	123678-HxCDD	57653-85-7	0.0316 JB	0.00977	5.41	1
11031	123789-HxCDD	19408-74-3	0.0302 JBQ	0.00955	5.41	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0107	5.41	1
11031	OCDD	3268-87-9	0.519 JB	0.0103	10.8	1
11031	2378-TCDF	51207-31-9	0.0201 JBQ	0.0108	1.08	1
11031	12378-PeCDF	57117-41-6	0.0201 JB	0.00557	5.41	1
11031	23478-PeCDF	57117-31-4	0.0569 JB	0.00523	5.41	1
11031	123478-HxCDF	70648-26-9	0.0391 JBQ	0.00591	5.41	1
11031	123678-HxCDF	57117-44-9	0.0263 JB	0.00500	5.41	1
11031	123789-HxCDF	72918-21-9	0.0255 JBQ	0.00602	5.41	1
11031	234678-HxCDF	60851-34-5	0.0367 JB	0.00557	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0857 JB	0.00511	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0319 JB	0.00761	5.41	1
11031	OCDF	39001-02-0	0.125 JB	0.0101	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 22:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Analysis Report

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487699
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5621 SDG#: DX156-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.684	U	0.684	2.25	1
10915	12378-PeCDD	40321-76-4	0.576	U	0.576	11.3	1
10915	123478-HxCDD	39227-28-6	0.371	U	0.371	11.3	1
10915	123678-HxCDD	57653-85-7	0.534	JBQ	0.388	11.3	1
10915	123789-HxCDD	19408-74-3	0.378	U	0.378	11.3	1
10915	1234678-HpCDD	35822-46-9	4.07	JB	0.439	11.3	1
10915	OCDD	3268-87-9	5.86	JB	0.382	22.5	1
10915	2378-TCDF	51207-31-9	0.521	U	0.521	2.25	1
10915	12378-PeCDF	57117-41-6	0.251	U	0.251	11.3	1
10915	23478-PeCDF	57117-31-4	0.883	JBQ	0.222	11.3	1
10915	123478-HxCDF	70648-26-9	1.01	JBQ	0.274	11.3	1
10915	123678-HxCDF	57117-44-9	0.475	JB	0.261	11.3	1
10915	123789-HxCDF	72918-21-9	0.251	U	0.251	11.3	1
10915	234678-HxCDF	60851-34-5	0.834	JBQ	0.256	11.3	1
10915	1234678-HpCDF	67562-39-4	2.74	JB	0.223	11.3	1
10915	1234789-HpCDF	55673-89-7	0.318	JBQ	0.259	11.3	1
10915	OCDF	39001-02-0	2.46	JB	0.579	22.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	103	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487699
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5621 SDG#: DX156-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11339001	12/09/2011 19:12	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11339001	12/05/2011 08:45	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11343162401B	Sample number(s): 6487694-6487698									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11339001	Sample number(s): 6487699									
2378-TCDD	0.554	U	0.554	2.00	pg/l	111		67-158		
12378-PeCDD	0.365	U	0.365	10.0	pg/l	109		70-142		
123478-HxCDD	0.276	U	0.276	10.0	pg/l	107		70-164		
123678-HxCDD	0.498	J	0.276	10.0	pg/l	105		76-134		
123789-HxCDD	0.726	J	0.282	10.0	pg/l	112		64-162		
1234678-HpCDD	3.79	J	0.252	10.0	pg/l	109		70-140		
OCDD	6.63	J	0.306	20.0	pg/l	105		78-144		
2378-TCDF	0.424	U	0.424	2.00	pg/l	103		75-158		
12378-PeCDF	0.230	J	0.174	10.0	pg/l	112		80-134		
23478-PeCDF	0.598	J	0.147	10.0	pg/l	106		68-160		
123478-HxCDF	0.975	J	0.216	10.0	pg/l	109		72-134		
123678-HxCDF	0.664	J	0.208	10.0	pg/l	108		84-130		
123789-HxCDF	0.327	J	0.190	10.0	pg/l	109		78-130		
234678-HxCDF	1.06	J	0.196	10.0	pg/l	106		70-156		
1234678-HpCDF	3.73	J	0.155	10.0	pg/l	101		82-122		
1234789-HpCDF	0.384	J	0.169	10.0	pg/l	106		78-138		
OCDF	2.25	J	0.371	20.0	pg/l	104		63-170		
Batch number: 11342003	Sample number(s): 6487694-6487698									
2378-TCDD	0.0313	J	0.0144	1.00	ng/kg	101		67-158		
12378-PeCDD	0.0899	J	0.0143	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0576	J	0.0114	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0571	J	0.0118	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0703	J	0.0113	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.248	J	0.0122	5.00	ng/kg	100		70-140		
OCDD	0.403	J	0.0113	10.0	ng/kg	101		78-144		
2378-TCDF	0.0290	J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0765	J	0.00820	5.00	ng/kg	100		80-134		
23478-PeCDF	0.118	J	0.00780	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0750	J	0.0105	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0647	J	0.00910	5.00	ng/kg	104		84-130		
123789-HxCDF	0.111	J	0.0107	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0820	J	0.00970	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.117	J	0.00660	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0904	J	0.0102	5.00	ng/kg	101		78-138		
OCDF	0.207	J	0.0135	10.0	ng/kg	102		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11343162401B	Sample number(s): 6487694-6487698					BKG: P487644			
Moisture Content by 160.3						11.6	11.7	0	20
Batch number: 11342003	Sample number(s): 6487694-6487698					UNSPK: P487669			
2378-TCDD	95	99	67-158	1	25				
12378-PeCDD	94	96	70-142	2	25				
123478-HxCDD	93	97	70-164	0	25				
123678-HxCDD	90	93	76-134	0	25				
123789-HxCDD	101	101	64-162	4	25				
1234678-HpCDD	61*	75	70-140	6	25				
OCDD	-135 (2)	-33 (2)	78-144	17	25				
2378-TCDF	93	96	75-158	1	25				
12378-PeCDF	96	97	80-134	3	25				
23478-PeCDF	93	90	68-160	6	25				
123478-HxCDF	98	100	72-134	1	25				
123678-HxCDF	99	100	84-130	3	25				
123789-HxCDF	101	101	78-130	3	25				
234678-HxCDF	97	97	70-156	4	25				
1234678-HpCDF	92	93	82-122	2	25				
1234789-HpCDF	100	95	78-138	8	25				
OCDF	99	100	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11339001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6487699	78	87	79	81	85	103
Blank	73	92	73	75	80	97
OPR	75	87	76	79	87	101
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6487699	86	87	87	77	76	77
Blank	82	88	86	79	70	74
OPR	90	97	104	79	79	78
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Surrogate Quality Control

6487699	77	80	82	87	85	
Blank	72	79	84	83	87	
OPR	77	88	96	89	89	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11342003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6487694	83	93	76	77	76	79
6487695	64	72	65	75	69	69
6487696	63	76	57	66	65	63
6487697	66	72	67	78	71	66
6487698	65	71	63	74	65	64
Blank	80	82	74	83	78	76
MS	85	83	73	73	72	69
MSD	89	94	81	83	81	80
OPR	68	68	65	74	69	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6487694	79	75	70	98	80	78
6487695	89	63	54	85	80	79
6487696	74	60	52	88	72	70
6487697	84	60	53	81	79	82
6487698	85	61	53	84	76	76
Blank	106	74	72	94	89	92
MS	65	54	41	97	80	82
MSD	75	69	49	111	87	90
OPR	97	60	55	80	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6487694	77	79	72	79	91
6487695	82	77	68	54	76
6487696	72	76	63	50	72
6487697	82	77	65	54	74
6487698	77	80	65	53	71
Blank	90	99	94	70	84
MS	79	65	45	75	82
MSD	89	78	53	83	90
OPR	79	86	75	59	74
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1279188 Sample#6487694-99

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY ANALYTES										SECONDARY ANALYTES									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	1-SS Sleeve			X	X																
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X					X	X	X	X	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-SS Sleeve			X	X																
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-SS Sleeve			X	X																
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-SS Sleeve			X	X																
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-SS Sleeve			X	X																
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
Relinquished by: (Signature)	Date/Time 12/01/2011 / 1630		Received for Laboratory by: (Signature)																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8767 9857 5007, 5029																						12/2/11 0915

Suzette Lehman

acct# 13013 Cap# 1279188 Sample# 6487694-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X				X			X	X		X			
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X																
EB-SA6-SB-120111	12.01.11	1400	WATER	HNO3	1-500 mL poly	X																							
EB-SA6-SB-120111	12.01.11	1400	WATER	NaOH	1-500 mL poly																				X				
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-250 mL glass																	X							
EB-SA6-SB-120111	12.01.11	1400	WATER	HCL	11-40 mL vials												X	X	X									X	
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	4-40 mL vials																X						X		

Relinquished by: (*Signature*) — Date/Time: 12/01/2011 / 1630 — Received for Laboratory by: (*Signature*): Suzette Lehman

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 5007, 5029

Laboratory: Lancaster Laboratories, Inc.

12/2/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/03/2011
Group Number: 1279335
SDG: DE292
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-019-SA8S-SB-4.0-5.0 Soil	6488950
SL-019-SA8S-SB-4.0-5.0MS Soil	6488951
SL-019-SA8S-SB-4.0-5.0MSD Soil	6488952
SL-019-SA8S-SB-4.0-5.0DUP Soil	6488953
SL-019-SA8S-SB-4.0-5.0RL MS Soil	6488954
SL-019-SA8S-SB-4.0-5.0RL LCS Soil	6488955
SL-020-SA8S-SB-4.0-5.0 Soil	6488956
SL-020-SA8S-SB-9.0-10.0 Soil	6488957
SL-021-SA8S-SB-4.0-5.0 Soil	6488958
SL-021-SA8S-SB-9.0-10.0 Soil	6488959
DUP02-SA8S-QC-120211 Soil	6488960

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.37	21.1	1
07914	Boron	7440-42-8	0.379	U	0.379	5.26	1
01650	Calcium	7440-70-2	3,680		2.63	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	22,700		2.75	21.1	1
01656	Lithium	7439-93-2	23.1		0.65	2.1	1
01657	Magnesium	7439-95-4	4,390		0.463	10.5	1
06958	Manganese	7439-96-5	321		0.0379	0.526	1
10145	Phosphorus	7723-14-0	472		0.368	10.5	1
01662	Potassium	7440-09-7	2,470		11.9	52.6	1
01667	Sodium	7440-23-5	63.9	J	6.26	105	1
07968	Strontium	7440-24-6	7.27		0.0263	0.526	1
06969	Tin	7440-31-5	3.57	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,190		0.0747	1.05	1
10146	Zirconium	7440-67-7	2.17	J	0.484	5.26	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.63		0.0834	0.417	2
06126	Barium	7440-39-3	87.0		0.110	0.417	2
06127	Beryllium	7440-41-7	0.599		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0592	J	0.0459	0.104	2
06131	Chromium	7440-47-3	13.9		0.125	0.417	2
06132	Cobalt	7440-48-4	7.70		0.0208	0.104	2
06133	Copper	7440-50-8	7.40		0.0834	0.417	2
06135	Lead	7439-92-1	5.09		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.331		0.0521	0.104	2
06139	Nickel	7440-02-0	8.55		0.104	0.417	2
06141	Selenium	7782-49-2	0.107	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0148	U	0.0148	0.104	2
06145	Thallium	7440-28-0	0.288		0.0313	0.104	2
06148	Vanadium	7440-62-2	31.6		0.0229	0.104	2
06149	Zinc	7440-66-6	67.2		0.584	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0985	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 09:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 19:51	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 10:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 10:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 12:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		18	180	1
04688	Acenaphthylene	208-96-8	1,700		18	180	1
04688	Aniline	62-53-3	1,100		180	530	1
04688	Anthracene	120-12-7	1,600		18	180	1
04688	Benzidine	92-87-5	1,300	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,500		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	1,500		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,600		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180	1
04688	Carbazole	86-74-8	1,600		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		35	180	1
04688	4-Chloroaniline	106-47-8	940		70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,200		18	180	1
04688	2-Chlorophenol	95-57-8	1,500		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180	1
04688	Chrysene	218-01-9	1,500		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,500		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	870		110	350	1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180	1
04688	Diethylphthalate	84-66-2	1,600		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,500		35	180	1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	870		180	530	1
04688	2,4-Dinitrophenol	51-28-5	950	J	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		35	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,500		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		18	350	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,600		18	180	1
04688	Hexachlorobenzene	118-74-1	1,600		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,400		70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		180	530	1
04688	Hexachloroethane	67-72-1	1,400		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,400	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,600	35	180	1
04688	4-Methylphenol	106-44-5	1,500	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	35	180	1
04688	4-Nitroaniline	100-01-6	1,100	70	180	1
04688	Nitrobenzene	98-95-3	1,500	18	180	1
04688	2-Nitrophenol	88-75-5	1,500	18	180	1
04688	4-Nitrophenol	100-02-7	1,300	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	530	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,600	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34	0.70	1.7	1
10138	Acenaphthylene	208-96-8	35	0.35	1.7	1
10138	Anthracene	120-12-7	37	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	36	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	37	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	34	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	38	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	43	6.3	19	1
10138	Chrysene	218-01-9	36	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.70	1.7	1
10138	Diethylphthalate	84-66-2	40	6.3	19	1
10138	Dimethylphthalate	131-11-3	37	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.3	19	1
10138	Fluoranthene	206-44-0	38	0.70	1.7	1
10138	Fluorene	86-73-7	37	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	31	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7	1
10138	Naphthalene	91-20-3	32		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	39		6.3	19	1
10138	Phenanthrene	85-01-8	35		0.70	1.7	1
10138	Pyrene	129-00-0	36		0.70	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	11		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	13		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.18	20.4	1
07914	Boron	7440-42-8	200		0.368	5.11	1
01650	Calcium	7440-70-2	4,170		2.55	20.4	1
01654	Iron	7439-89-6	22,200		2.67	20.4	1
01656	Lithium	7439-93-2	123		0.63	2.0	1
01657	Magnesium	7439-95-4	4,540		0.450	10.2	1
06958	Manganese	7439-96-5	359		0.0368	0.511	1
10145	Phosphorus	7723-14-0	561		0.358	10.2	1
01662	Potassium	7440-09-7	3,500		11.5	51.1	1
01667	Sodium	7440-23-5	1,060		6.08	102	1
07968	Strontium	7440-24-6	104		0.0255	0.511	1
06969	Tin	7440-31-5	390		0.327	10.2	1
06970	Titanium	7440-32-6	1,380		0.0726	1.02	1
10146	Zirconium	7440-67-7	104		0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.413		0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.47		0.0810	0.405	2
06126	Barium	7440-39-3	92.4		0.107	0.405	2
06127	Beryllium	7440-41-7	1.38		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.08		0.0445	0.101	2
06131	Chromium	7440-47-3	24.5		0.121	0.405	2
06132	Cobalt	7440-48-4	62.5		0.0202	0.101	2
06133	Copper	7440-50-8	18.1		0.0810	0.405	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.42	0.0103	0.202	2
06138	Molybdenum	7439-98-7	10.5	0.0506	0.101	2
06139	Nickel	7440-02-0	18.7	0.101	0.405	2
06141	Selenium	7782-49-2	2.14	0.0587	0.405	2
06142	Silver	7440-22-4	10.9	0.0144	0.101	2
06145	Thallium	7440-28-0	0.664	0.0304	0.101	2
06148	Vanadium	7440-62-2	42.8	0.0223	0.101	2
06149	Zinc	7440-66-6	75.0	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2	0.83	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	585	9.5	31.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.4	1.1	5.3	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 10:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 18:48	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 13:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:34	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180	1
04688	Acenaphthylene	208-96-8	1,800		18	180	1
04688	Aniline	62-53-3	980		180	530	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	1,600		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,600		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,600		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		35	180	1
04688	4-Chloroaniline	106-47-8	850		70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180	1
04688	2-Chlorophenol	95-57-8	1,600		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	180	1
04688	Chrysene	218-01-9	1,600		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,600		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	820		110	350	1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180	1
04688	Diethylphthalate	84-66-2	1,700		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600		35	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		35	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	670		180	530	1
04688	2,4-Dinitrophenol	51-28-5	720	J	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		18	350	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,600		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600		70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		180	530	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,600	35	180	1
04688	4-Methylphenol	106-44-5	1,500	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,600	35	180	1
04688	4-Nitroaniline	100-01-6	1,100	70	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,300	180	530	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,600	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	35	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.70	1.7	1
10138	Acenaphthylene	208-96-8	35	0.35	1.7	1
10138	Anthracene	120-12-7	35	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	34	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	35	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	34	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	32	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	33	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	40	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	42	6.3	19	1
10138	Chrysene	218-01-9	35	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.70	1.7	1
10138	Diethylphthalate	84-66-2	38	6.3	19	1
10138	Dimethylphthalate	131-11-3	37	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	6.3	19	1
10138	Fluoranthene	206-44-0	37	0.70	1.7	1
10138	Fluorene	86-73-7	35	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	31	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7	1
10138	Naphthalene	91-20-3	31		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	38		6.3	19	1
10138	Phenanthrene	85-01-8	34		0.70	1.7	1
10138	Pyrene	129-00-0	34		0.70	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	13		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	16		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		6.12	20.2	1
07914	Boron	7440-42-8	198		0.364	5.06	1
01650	Calcium	7440-70-2	4,260		2.53	20.2	1
01654	Iron	7439-89-6	23,800		2.64	20.2	1
01656	Lithium	7439-93-2	122		0.63	2.0	1
01657	Magnesium	7439-95-4	4,710		0.445	10.1	1
06958	Manganese	7439-96-5	343		0.0364	0.506	1
10145	Phosphorus	7723-14-0	580		0.354	10.1	1
01662	Potassium	7440-09-7	3,540		11.4	50.6	1
01667	Sodium	7440-23-5	1,040		6.02	101	1
07968	Strontium	7440-24-6	104		0.0253	0.506	1
06969	Tin	7440-31-5	387		0.324	10.1	1
06970	Titanium	7440-32-6	1,430		0.0719	1.01	1
10146	Zirconium	7440-67-7	103		0.466	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.389		0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.39		0.0810	0.405	2
06126	Barium	7440-39-3	98.0		0.107	0.405	2
06127	Beryllium	7440-41-7	1.44		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.14		0.0445	0.101	2
06131	Chromium	7440-47-3	25.7		0.121	0.405	2
06132	Cobalt	7440-48-4	64.3		0.0202	0.101	2
06133	Copper	7440-50-8	19.1		0.0810	0.405	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.44	0.0103	0.202	2
06138	Molybdenum	7439-98-7	10.7	0.0506	0.101	2
06139	Nickel	7440-02-0	19.4	0.101	0.405	2
06141	Selenium	7782-49-2	2.49	0.0587	0.405	2
06142	Silver	7440-22-4	11.0	0.0144	0.101	2
06145	Thallium	7440-28-0	0.673	0.0304	0.101	2
06148	Vanadium	7440-62-2	44.6	0.0223	0.101	2
06149	Zinc	7440-66-6	79.7	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.174	0.0072	0.102	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 10:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 19:20	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.24	20.6	1
07914	Boron	7440-42-8	0.372	U	0.372	5.16	1
01650	Calcium	7440-70-2	5,060		2.58	20.6	1
01654	Iron	7439-89-6	23,000		2.69	20.6	1
01656	Lithium	7439-93-2	23.0		0.64	2.1	1
01657	Magnesium	7439-95-4	4,400		0.454	10.3	1
06958	Manganese	7439-96-5	348		0.0372	0.516	1
10145	Phosphorus	7723-14-0	475		0.361	10.3	1
01662	Potassium	7440-09-7	2,280		11.7	51.6	1
01667	Sodium	7440-23-5	64.4	J	6.14	103	1
07968	Strontium	7440-24-6	8.19		0.0258	0.516	1
06969	Tin	7440-31-5	3.42	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,150		0.0733	1.03	1
10146	Zirconium	7440-67-7	2.77	J	0.475	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0764	U	0.0764	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.39		0.0826	0.413	2
06126	Barium	7440-39-3	91.4		0.109	0.413	2
06127	Beryllium	7440-41-7	0.701		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0650	J	0.0454	0.103	2
06131	Chromium	7440-47-3	14.2		0.124	0.413	2
06132	Cobalt	7440-48-4	7.53		0.0206	0.103	2
06133	Copper	7440-50-8	7.79		0.0826	0.413	2
06135	Lead	7439-92-1	5.38		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.293		0.0516	0.103	2
06139	Nickel	7440-02-0	9.12		0.103	0.413	2
06141	Selenium	7782-49-2	0.133	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.103	2
06145	Thallium	7440-28-0	0.291		0.0310	0.103	2
06148	Vanadium	7440-62-2	34.8		0.0227	0.103	2
06149	Zinc	7440-66-6	74.8		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.93	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 12:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 11:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488954
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.6	J	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	5.0		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488955
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.6	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Fluoranthene	206-44-0	49	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenanthrene	85-01-8	52	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	35	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		6.77	22.4	1
07914	Boron	7440-42-8	8.36		0.403	5.59	1
01650	Calcium	7440-70-2	101,000		14.0	112	5
01654	Iron	7439-89-6	26,000		2.92	22.4	1
01656	Lithium	7439-93-2	21.3		0.69	2.2	1
01657	Magnesium	7439-95-4	7,170		0.492	11.2	1
06958	Manganese	7439-96-5	357		0.0403	0.559	1
10145	Phosphorus	7723-14-0	576		0.392	11.2	1
01662	Potassium	7440-09-7	3,670		12.6	55.9	1
01667	Sodium	7440-23-5	113		6.66	112	1
07968	Strontium	7440-24-6	128		0.0280	0.559	1
06969	Tin	7440-31-5	3.12	J	0.358	11.2	1
06970	Titanium	7440-32-6	922		0.0794	1.12	1
10146	Zirconium	7440-67-7	4.69	J	0.515	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0820	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.01		0.0886	0.443	2
06126	Barium	7440-39-3	90.2		0.117	0.443	2
06127	Beryllium	7440-41-7	0.830		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.322		0.0487	0.111	2
06131	Chromium	7440-47-3	33.5		0.133	0.443	2
06132	Cobalt	7440-48-4	10.2		0.0222	0.111	2
06133	Copper	7440-50-8	21.2		0.0886	0.443	2
06135	Lead	7439-92-1	11.2		0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.374		0.0554	0.111	2
06139	Nickel	7440-02-0	20.5		0.111	0.443	2
06141	Selenium	7782-49-2	0.217	J	0.0643	0.443	2
06142	Silver	7440-22-4	0.0273	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.285		0.0332	0.111	2
06148	Vanadium	7440-62-2	56.9		0.0244	0.111	2
06149	Zinc	7440-66-6	61.3		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.94	J	0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.38	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 11:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 20:23	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	113410017A	12/09/2011 14:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	113410017A	12/08/2011 08:55	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:12	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:07	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 13:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 11:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,800		6.67	22.1	1
07914	Boron	7440-42-8	6.80		0.397	5.51	1
01650	Calcium	7440-70-2	80,900		13.8	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,500		2.88	22.1	1
01656	Lithium	7439-93-2	25.0		0.68	2.2	1
01657	Magnesium	7439-95-4	6,900		0.485	11.0	1
06958	Manganese	7439-96-5	394		0.0397	0.551	1
10145	Phosphorus	7723-14-0	432		0.386	11.0	1
01662	Potassium	7440-09-7	3,140		12.5	55.1	1
01667	Sodium	7440-23-5	142		6.56	110	1
07968	Strontium	7440-24-6	91.0		0.0276	0.551	1
06969	Tin	7440-31-5	2.87	J	0.353	11.0	1
06970	Titanium	7440-32-6	1,020		0.0783	1.10	1
10146	Zirconium	7440-67-7	5.66		0.507	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0808	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.19		0.0873	0.437	2
06126	Barium	7440-39-3	99.0		0.116	0.437	2
06127	Beryllium	7440-41-7	0.857		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.350		0.0480	0.109	2
06131	Chromium	7440-47-3	36.8		0.131	0.437	2
06132	Cobalt	7440-48-4	12.7		0.0218	0.109	2
06133	Copper	7440-50-8	20.3		0.0873	0.437	2
06135	Lead	7439-92-1	11.4		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.434		0.0546	0.109	2
06139	Nickel	7440-02-0	22.7		0.109	0.437	2
06141	Selenium	7782-49-2	0.206	J	0.0633	0.437	2
06142	Silver	7440-22-4	0.0297	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.302		0.0328	0.109	2
06148	Vanadium	7440-62-2	61.9		0.0240	0.109	2
06149	Zinc	7440-66-6	65.6		0.611	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.37	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 11:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 20:54	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:32	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:09	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		6.57	21.7	1
07914	Boron	7440-42-8	7.84		0.391	5.43	1
01650	Calcium	7440-70-2	116,000		13.6	109	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,300		2.83	21.7	1
01656	Lithium	7439-93-2	22.3		0.67	2.2	1
01657	Magnesium	7439-95-4	6,240		0.478	10.9	1
06958	Manganese	7439-96-5	403		0.0391	0.543	1
10145	Phosphorus	7723-14-0	502		0.380	10.9	1
01662	Potassium	7440-09-7	3,220		12.3	54.3	1
01667	Sodium	7440-23-5	200		6.46	109	1
07968	Strontium	7440-24-6	98.9		0.0271	0.543	1
06969	Tin	7440-31-5	2.93	J	0.348	10.9	1
06970	Titanium	7440-32-6	932		0.0771	1.09	1
10146	Zirconium	7440-67-7	4.14	J	0.500	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0796	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.28		0.0860	0.430	2
06126	Barium	7440-39-3	107		0.114	0.430	2
06127	Beryllium	7440-41-7	0.906		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.330		0.0473	0.108	2
06131	Chromium	7440-47-3	36.0		0.129	0.430	2
06132	Cobalt	7440-48-4	10.5		0.0215	0.108	2
06133	Copper	7440-50-8	17.2		0.0860	0.430	2
06135	Lead	7439-92-1	9.62		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.396		0.0538	0.108	2
06139	Nickel	7440-02-0	20.5		0.108	0.430	2
06141	Selenium	7782-49-2	0.206	J	0.0624	0.430	2
06142	Silver	7440-22-4	0.0356	J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.324		0.0323	0.108	2
06148	Vanadium	7440-62-2	61.7		0.0237	0.108	2
06149	Zinc	7440-66-6	60.6		0.602	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.45	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 12:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 21:26	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:40	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:11	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11341243202A	12/10/2011 12:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.54	21.6	1
07914	Boron	7440-42-8	6.42		0.389	5.41	1
01650	Calcium	7440-70-2	117,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,800		2.82	21.6	1
01656	Lithium	7439-93-2	22.9		0.67	2.2	1
01657	Magnesium	7439-95-4	6,190		0.476	10.8	1
06958	Manganese	7439-96-5	390		0.0389	0.541	1
10145	Phosphorus	7723-14-0	396		0.378	10.8	1
01662	Potassium	7440-09-7	2,500		12.2	54.1	1
01667	Sodium	7440-23-5	368		6.43	108	1
07968	Strontium	7440-24-6	92.6		0.0270	0.541	1
06969	Tin	7440-31-5	2.87	J	0.346	10.8	1
06970	Titanium	7440-32-6	1,030		0.0768	1.08	1
10146	Zirconium	7440-67-7	6.18		0.497	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0808	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.32		0.0873	0.437	2
06126	Barium	7440-39-3	189		0.116	0.437	2
06127	Beryllium	7440-41-7	0.967		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.472		0.0480	0.109	2
06131	Chromium	7440-47-3	45.7		0.131	0.437	2
06132	Cobalt	7440-48-4	14.7		0.0218	0.109	2
06133	Copper	7440-50-8	22.8		0.0873	0.437	2
06135	Lead	7439-92-1	12.6		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.680		0.0546	0.109	2
06139	Nickel	7440-02-0	28.5		0.109	0.437	2
06141	Selenium	7782-49-2	0.256	J	0.0633	0.437	2
06142	Silver	7440-22-4	0.0276	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.383		0.0328	0.109	2
06148	Vanadium	7440-62-2	78.9		0.0240	0.109	2
06149	Zinc	7440-66-6	74.5		0.611	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.66	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 12:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 21:57	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 23:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:48	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:13	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.22	20.6	1
07914	Boron	7440-42-8	0.370	U	0.370	5.14	1
01650	Calcium	7440-70-2	3,440		2.57	20.6	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,300		2.69	20.6	1
01656	Lithium	7439-93-2	21.2		0.64	2.1	1
01657	Magnesium	7439-95-4	4,090		0.453	10.3	1
06958	Manganese	7439-96-5	280		0.0370	0.514	1
10145	Phosphorus	7723-14-0	378		0.360	10.3	1
01662	Potassium	7440-09-7	2,080		11.6	51.4	1
01667	Sodium	7440-23-5	60.6	J	6.12	103	1
07968	Strontium	7440-24-6	7.31		0.0257	0.514	1
06969	Tin	7440-31-5	3.27	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,120		0.0730	1.03	1
10146	Zirconium	7440-67-7	1.90	J	0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0761	U	0.0761	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.83		0.0823	0.411	2
06126	Barium	7440-39-3	63.6		0.109	0.411	2
06127	Beryllium	7440-41-7	0.475		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.103	2
06131	Chromium	7440-47-3	10.2		0.123	0.411	2
06132	Cobalt	7440-48-4	5.17		0.0206	0.103	2
06133	Copper	7440-50-8	5.24		0.0823	0.411	2
06135	Lead	7439-92-1	3.61		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.230		0.0514	0.103	2
06139	Nickel	7440-02-0	5.96		0.103	0.411	2
06141	Selenium	7782-49-2	0.107	J	0.0597	0.411	2
06142	Silver	7440-22-4	0.0146	U	0.0146	0.103	2
06145	Thallium	7440-28-0	0.246		0.0309	0.103	2
06148	Vanadium	7440-62-2	25.5		0.0226	0.103	2
06149	Zinc	7440-66-6	52.8		0.576	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 13:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 22:28	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 23:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 16:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11339SLE026	Sample number(s): 6488950-6488952,6488956-6488960									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	99		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	112		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	115		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	112		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	76		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	107		72-119		
Batch number: 11341SLB026	Sample number(s): 6488950-6488952,6488956-6488960									
Acenaphthene	17	U	17.	170	ug/kg	88		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	88		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	89		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	95		67-125		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	91		75-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	41		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	87		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		74-115		
Chrysene	17	U	17.	170	ug/kg	88		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	89		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	88		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	91		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	92		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	91		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	82		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	86		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	78		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	81		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	92		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 113410017A	Sample number(s): 6488956									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	117*		85-115		
Batch number: 113400026A	Sample number(s): 6488950-6488952,6488954-6488960									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	77		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113391026003A	Sample number(s): 6488950-6488953,6488956-6488960									
Antimony	0.0712	U	0.0712	0.192	mg/kg	69		40-227		
Arsenic	0.0769	U	0.0769	0.385	mg/kg	99		83-111		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	97		84-112		
Cadmium	0.0423	U	0.0423	0.0962	mg/kg	104		83-111		
Chromium	0.115	U	0.115	0.385	mg/kg	110		77-123		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	105		85-114		
Copper	0.0769	U	0.0769	0.385	mg/kg	103		81-110		
Lead	0.0098	U	0.0098	0.192	mg/kg	100		84-112		
Nickel	0.0962	U	0.0962	0.385	mg/kg	99		81-110		
Silver	0.0137	U	0.0137	0.0962	mg/kg	100		83-112		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	99		82-112		
Vanadium	0.0212	U	0.0212	0.0962	mg/kg	103		76-110		
Zinc	0.538	U	0.538	2.88	mg/kg	103		82-110		
Batch number: 113391026003B	Sample number(s): 6488950-6488953,6488956-6488960									
Selenium	0.0558	U	0.0558	0.385	mg/kg	99		79-110		
Batch number: 113391026003C	Sample number(s): 6488950-6488953,6488956-6488960									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	99		80-110		
Batch number: 113391026003D	Sample number(s): 6488950-6488953,6488956-6488960									
Barium	0.102	U	0.102	0.385	mg/kg	102		83-110		
Batch number: 113395708003	Sample number(s): 6488950-6488953,6488956-6488960									
Aluminum	10.1	J	6.05	20.0	mg/kg	80		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	103		83-110		
Calcium	9.44	J	2.50	20.0	mg/kg	102		81-110		
Iron	4.21	J	2.61	20.0	mg/kg	94		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	100		80-120		
Magnesium	4.45	J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	99		85-116		
Phosphorus	1.34	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	100		71-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	6.93	J	5.95	100	mg/kg	102		76-110		
Strontium	0.0380	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.49	J	0.320	10.0	mg/kg	110		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	95		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 113395711004	Sample number(s): 6488950-6488953,6488956-6488960									
Mercury	0.0070	U	0.0070	0.0991	mg/kg	96		83-119		
Batch number: 11341243202A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11343621204A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11348621201A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11347039401A	Sample number(s): 6488950,6488953,6488956-6488960									
17a pH by 9045C						100		95-105		
Batch number: 11343162402A	Sample number(s): 6488950-6488954,6488956-6488960									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11339SLE026	Sample number(s): 6488950-6488952,6488956-6488960 UNSPK: 6488950								
Acenaphthene	98	97	63-105	0	30				
Acenaphthylene	100	101	67-114	0	30				
Anthracene	105	101	73-115	3	30				
Benzo(a)anthracene	103	98	59-128	5	30				
Benzo(a)pyrene	106	100	58-142	6	30				
Benzo(b)fluoranthene	103	98	54-163	5	30				
Benzo(g,h,i)perylene	97	92	33-141	5	30				
Benzo(k)fluoranthene	98	94	57-153	5	30				
Butylbenzylphthalate	109	116	57-173	7	30				
Di-n-butylphthalate	122	120	65-148	2	30				
Chrysene	104	101	67-123	2	30				
Dibenz(a,h)anthracene	105	96	22-133	8	30				
Diethylphthalate	115	110	70-136	4	30				
Dimethylphthalate	106	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	126	130	39-167	3	30				
Fluoranthene	108	107	51-149	1	30				
Fluorene	105	101	66-122	4	30				
Indeno(1,2,3-cd)pyrene	106	96	21-143	10	30				
1-Methylnaphthalene	88	89	72-123	0	30				
2-Methylnaphthalene	86	87	64-103	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	90	90	61-102	0	30				
N-Nitrosodimethylamine	93	93	48-113	0	30				
Di-n-octylphthalate	111	109	40-192	2	30				
Phenanthrene	100	98	62-122	2	30				
Pyrene	104	98	51-131	6	30				
Batch number: 11341SLB026	Sample number(s): 6488950-6488952,6488956-6488960 UNSPK: 6488950								
Acenaphthene	87	91	75-115	5	30				
Acenaphthylene	99	103	81-110	4	30				
Aniline	62	56	18-116	11	30				
Anthracene	93	96	75-115	4	30				
Benzidine	15*	0*	35-141	200*	30				
Benzo(a)anthracene	87	92	65-122	5	30				
Benzo(a)pyrene	98	100	57-126	1	30				
Benzo(b)fluoranthene	99	106	59-125	6	30				
Benzo(g,h,i)perylene	89	93	59-127	5	30				
Benzo(k)fluoranthene	96	97	56-132	0	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	87	90	67-115	3	30				
4-Bromophenyl-phenylether	90	91	67-129	1	30				
Butylbenzylphthalate	90	91	73-134	2	30				
Di-n-butylphthalate	94	96	67-123	2	30				
Carbazole	91	93	64-120	2	30				
4-Chloro-3-methylphenol	89	90	62-122	1	30				
4-Chloroaniline	54	49	13-107	10	30				
bis(2-Chloroethoxy)methane	84	88	75-104	4	30				
bis(2-Chloroethyl)ether	86	90	60-116	5	30				
bis(2-Chloroisopropyl)ether	81	84	55-142	5	30				
2-Chloronaphthalene	71	76	50-141	6	30				
2-Chlorophenol	87	92	73-121	5	30				
4-Chlorophenyl-phenylether	90	94	80-109	5	30				
Chrysene	86	91	62-128	5	30				
Dibenz(a,h)anthracene	91	94	65-125	3	30				
Dibenzofuran	86	91	71-112	5	30				
1,2-Dichlorobenzene	79	84	66-108	6	30				
1,3-Dichlorobenzene	79	84	63-109	6	30				
1,4-Dichlorobenzene	80	83	58-108	4	30				
3,3'-Dichlorobenzidine	50	47	28-109	6	30				
2,4-Dichlorophenol	92	96	66-123	4	30				
Diethylphthalate	91	95	66-118	4	30				
2,4-Dimethylphenol	88	91	68-118	3	30				
3,5-Dimethylphenol	94	97	71-127	3	30				
Dimethylphthalate	90	93	64-118	4	30				
4,6-Dinitro-2-methylphenol	49	38	11-126	25	30				
2,4-Dinitrophenol	27	20	20-143	28	30				
2,4-Dinitrotoluene	91	95	56-129	4	30				
2,6-Dinitrotoluene	94	97	69-123	3	30				
1,2-Diphenylhydrazine	88	90	71-129	2	30				
bis(2-Ethylhexyl)phthalate	87	92	63-122	5	30				
Fluoranthene	95	98	73-112	3	30				
Fluorene	93	96	63-121	3	30				
Hexachlorobenzene	90	93	77-114	3	30				
Hexachlorobutadiene	81	89	62-120	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorocyclopentadiene	77	84	10-153	9	30				
Hexachloroethane	80	83	57-109	4	30				
Indeno(1,2,3-cd)pyrene	91	90	61-126	1	30				
Isophorone	85	88	73-102	3	30				
1-Methylnaphthalene	81	86	64-122	5	30				
2-Methylnaphthalene	84	89	76-114	5	30				
2-Methylphenol	90	93	75-111	3	30				
4-Methylphenol	84	85	59-123	2	30				
Naphthalene	86	89	72-116	3	30				
2-Nitroaniline	92	96	67-125	4	30				
3-Nitroaniline	87	88	59-122	1	30				
4-Nitroaniline	61	60	41-109	2	30				
Nitrobenzene	84	89	57-125	5	30				
2-Nitrophenol	87	91	56-127	5	30				
4-Nitrophenol	75	78	37-129	4	30				
N-Nitroso-di-n-propylamine	79	80	60-116	2	30				
N-Nitrosodimethylamine	78	80	47-116	3	30				
N-Nitrosodiphenylamine	92	94	71-122	3	30				
Di-n-octylphthalate	102	103	56-126	0	30				
Pentachlorophenol	78	73	28-127	7	30				
Phenanthrene	91	93	65-125	2	30				
Phenol	87	88	58-126	1	30				
Pyrene	92	92	74-126	1	30				
1,2,4-Trichlorobenzene	85	89	72-115	4	30				
2,4,5-Trichlorophenol	93	96	58-129	3	30				
2,4,6-Trichlorophenol	92	95	56-134	3	30				
Batch number: 113410017A	Sample number(s): 6488956 UNSPK: 6488956								
6a Perchlorate EPA 6850	114	119	80-120	4	20				
Batch number: 113400026A	Sample number(s): 6488950-6488952,6488954-6488960 UNSPK: 6488950								
PCB-1016	63	74	29-146	17	50				
PCB-1260	72	93	39-149	26	50				
Batch number: 113391026003A	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Antimony	34*	32*	75-125	6	20	0.0733 U	0.0725 U	0 (1)	20
Arsenic	140*	136*	75-125	1	20	6.30	7.02	11	20
Beryllium	96	104	75-125	5	20	0.569	0.665	16	20
Cadmium	101	107	75-125	5	20	0.0562 J	0.0617 J	9 (1)	20
Chromium	105	117	75-125	5	20	13.2	13.5	3	20
Cobalt	108	112	75-125	3	20	7.31	7.15	2	20
Copper	106	116	75-125	5	20	7.03	7.40	5	20
Lead	110	110	75-125	0	20	4.84	5.11	5	20
Nickel	100	107	75-125	4	20	8.12	8.67	6	20
Silver	107	108	75-125	1	20	0.0141 U	0.0139 U	0 (1)	20
Thallium	93	95	75-125	1	20	0.274	0.276	1 (1)	20
Vanadium	111	129*	75-125	4	20	30.0	33.1	10	20
Zinc	77 (2)	123 (2)	75-125	6	20	63.8	71.0	11	20
Batch number: 113391026003B	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Selenium	100	118	75-125	15	20	0.102 J	0.126 J	21* (1)	20
Batch number: 113391026003C	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	100	102	75-125	2	20	0.314	0.278	12 (1)	20
Batch number: 113391026003D	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Barium	54 (2)	109 (2)	75-125	6	20	82.6	86.8	5	20
Batch number: 113395708003	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Aluminum	996 (2)	1240 (2)	75-125	3	20	10,900	11,100	2	20
Boron	98	98	84-115	1	20	0.360 U	0.353 U	0 (1)	20
Calcium	122 (2)	144 (2)	75-125	2	20	3,490	4,800	32*	20
Iron	-418 (2)	1097 (2)	75-125	7	20	21,500	21,800	1	20
Lithium	98	98	82-114	1	20	22.0	21.8	1	20
Magnesium	72 (2)	157 (2)	75-125	4	20	4,170	4,180	0	20
Manganese	75 (2)	44 (2)	75-125	5	20	305	330	8	20
Phosphorus	87 (2)	107 (2)	75-125	3	20	448	452	1	20
Potassium	101	106	75-125	1	20	2,340	2,170	8	20
Sodium	97	96	75-125	2	20	60.7 J	61.2 J	1 (1)	20
Strontium	94	95	75-125	0	20	6.91	7.78	12	20
Tin	94	95	80-110	1	20	3.39 J	3.25 J	4 (1)	20
Titanium	191 (2)	239 (2)	75-125	3	20	1,130	1,090	4	20
Zirconium	100	99	81-110	1	20	2.06 J	2.63 J	24* (1)	20
Batch number: 113395711004	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Mercury	103	102	65-135	1	20	0.0066 U	0.0067 U	0 (1)	20
Batch number: 11341243202A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
3a Cr VI by EPA 7199	108		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11343621204A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11348621201A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
11a Anions by 300.0 - Fluoride	98		80-120			0.80 U	1.1	200* (1)	20
Batch number: 11347039401A	Sample number(s): 6488950,6488953,6488956-6488960 BKG: 6488950								
17a pH by 9045C						7.91	7.93	0	3
Batch number: 11343162402A	Sample number(s): 6488950-6488954,6488956-6488960 BKG: 6488950								
28a Moisture Content by 160.3						5.0	5.3	7	20
Moisture Content by 160.3						5.0	5.3	7	20
Moisture Content by 160.3						5.0	5.3	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11339SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6488950	99	89	98
6488951	106	90	94
6488952	106	93	95
6488956	98	96	101
6488957	88	91	91
6488958	95	87	102
6488959	94	99	100
6488960	89	91	99
Blank	97	93	104
LCS	112	95	98
MS	106	90	94
MSD	106	93	95
Limits:	67-129	63-129	51-141

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11341SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6488950	91	96	92	85	90	84
6488951	88	92	92	81	84	79
6488952	90	95	92	84	91	82
6488956	94	99	94	83	87	84
6488957	95	98	91	81	88	82
6488958	88	93	87	78	85	83
6488959	94	98	93	83	88	86
6488960	89	93	95	84	89	86
Blank	91	95	91	84	90	84
LCS	90	94	91	81	85	81
MS	88	92	92	81	84	79
MSD	90	95	92	84	91	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113400026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6488950	91	105
6488951	75	84
6488952	91	100
6488954	88	102
6488955	86	100
6488956	88	100
6488957	81	90
6488958	85	95
6488959	93	104
6488960	87	100
Blank	71	82
LCS	92	108
LCSD	91	106
MS	75	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Surrogate Quality Control

MSD	91	100
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1279335 Sample# 6433950-60

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYTES									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-SS Sleeve			X	X						MS/MSD
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		MS/MSD
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-SS Sleeve			X	X						
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	12/02/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	12/2/11 0910	8767 9857 5030	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/03/2011
Group Number: 1279336
SDG: DX157
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-019-SA8S-SB-4.0-5.0 Soil	6488961
SL-019-SA8S-SB-4.0-5.0MS Soil	6488962
SL-019-SA8S-SB-4.0-5.0MSD Soil	6488963
SL-020-SA8S-SB-4.0-5.0 Soil	6488964
SL-020-SA8S-SB-9.0-10.0 Soil	6488965
SL-021-SA8S-SB-4.0-5.0 Soil	6488966
SL-021-SA8S-SB-9.0-10.0 Soil	6488967
DUP02-SA8S-QC-120211 Soil	6488968

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0305 JBQ	0.0145	1.05	1
11031	12378-PeCDD	40321-76-4	0.0394 JB	0.0149	5.25	1
11031	123478-HxCDD	39227-28-6	0.0352 JB	0.0132	5.25	1
11031	123678-HxCDD	57653-85-7	0.0428 JB	0.0136	5.25	1
11031	123789-HxCDD	19408-74-3	0.0397 JBQ	0.0127	5.25	1
11031	1234678-HpCDD	35822-46-9	0.316 JBQ	0.0158	5.25	1
11031	OCDD	3268-87-9	0.550 JB	0.0160	10.5	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.05	1
11031	12378-PeCDF	57117-41-6	0.0360 JB	0.00779	5.25	1
11031	23478-PeCDF	57117-31-4	0.0732 JBQ	0.00737	5.25	1
11031	123478-HxCDF	70648-26-9	0.0533 JB	0.00989	5.25	1
11031	123678-HxCDF	57117-44-9	0.0445 JBQ	0.00926	5.25	1
11031	123789-HxCDF	72918-21-9	0.0534 JB	0.0100	5.25	1
11031	234678-HxCDF	60851-34-5	0.0560 JBQ	0.00958	5.25	1
11031	1234678-HpCDF	67562-39-4	0.131 JB	0.00853	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0352 JBQ	0.0108	5.25	1
11031	OCDF	39001-02-0	0.151 JB	0.0128	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/16/2011 23:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.7	B	0.0195	1.04	1
11031	12378-PeCDD	40321-76-4	102	B	0.0211	5.20	1
11031	123478-HxCDD	39227-28-6	97.7	B	0.0280	5.20	1
11031	123678-HxCDD	57653-85-7	98.2	B	0.0301	5.20	1
11031	123789-HxCDD	19408-74-3	106	B	0.0274	5.20	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0294	5.20	1
11031	OCDD	3268-87-9	206	B	0.0235	10.4	1
11031	2378-TCDF	51207-31-9	20.6	B	0.0254	1.04	1
11031	12378-PeCDF	57117-41-6	105	B	0.0205	5.20	1
11031	23478-PeCDF	57117-31-4	96.9	B	0.0187	5.20	1
11031	123478-HxCDF	70648-26-9	107	B	0.0371	5.20	1
11031	123678-HxCDF	57117-44-9	104	B	0.0319	5.20	1
11031	123789-HxCDF	72918-21-9	105	B	0.0344	5.20	1
11031	234678-HxCDF	60851-34-5	103	B	0.0342	5.20	1
11031	1234678-HpCDF	67562-39-4	96.7	B	0.0240	5.20	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0302	5.20	1
11031	OCDF	39001-02-0	205	B	0.0198	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 05:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.1	B	0.0199	1.04	1
11031	12378-PeCDD	40321-76-4	103	B	0.0280	5.19	1
11031	123478-HxCDD	39227-28-6	96.9	B	0.0236	5.19	1
11031	123678-HxCDD	57653-85-7	97.3	B	0.0237	5.19	1
11031	123789-HxCDD	19408-74-3	106	B	0.0224	5.19	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0255	5.19	1
11031	OCDD	3268-87-9	202	B	0.0217	10.4	1
11031	2378-TCDF	51207-31-9	20.4	B	0.0235	1.04	1
11031	12378-PeCDF	57117-41-6	102	B	0.0199	5.19	1
11031	23478-PeCDF	57117-31-4	98.9	B	0.0200	5.19	1
11031	123478-HxCDF	70648-26-9	107	B	0.0442	5.19	1
11031	123678-HxCDF	57117-44-9	106	B	0.0405	5.19	1
11031	123789-HxCDF	72918-21-9	107	B	0.0409	5.19	1
11031	234678-HxCDF	60851-34-5	101	B	0.0411	5.19	1
11031	1234678-HpCDF	67562-39-4	95.8	B	0.0234	5.19	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0287	5.19	1
11031	OCDF	39001-02-0	205	B	0.0227	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 06:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0395 JB	0.0133	1.12	1
11031	12378-PeCDD	40321-76-4	0.0780 JBQ	0.0165	5.62	1
11031	123478-HxCDD	39227-28-6	0.0492 JBQ	0.0139	5.62	1
11031	123678-HxCDD	57653-85-7	0.0765 JBQ	0.0144	5.62	1
11031	123789-HxCDD	19408-74-3	0.0605 JBQ	0.0132	5.62	1
11031	1234678-HpCDD	35822-46-9	0.464 JB	0.0165	5.62	1
11031	OCDD	3268-87-9	2.43 JB	0.0120	11.2	1
11031	2378-TCDF	51207-31-9	0.0162 JBQ	0.0141	1.12	1
11031	12378-PeCDF	57117-41-6	0.0805 JBQ	0.00825	5.62	1
11031	23478-PeCDF	57117-31-4	0.100 JB	0.00791	5.62	1
11031	123478-HxCDF	70648-26-9	0.0706 JBQ	0.0106	5.62	1
11031	123678-HxCDF	57117-44-9	0.0619 JBQ	0.00960	5.62	1
11031	123789-HxCDF	72918-21-9	0.0728 JBQ	0.00983	5.62	1
11031	234678-HxCDF	60851-34-5	0.0724 JBQ	0.00994	5.62	1
11031	1234678-HpCDF	67562-39-4	0.186 JB	0.00678	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0626 JB	0.00904	5.62	1
11031	OCDF	39001-02-0	0.241 JB	0.0134	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 07:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0197 JBQ	0.0118	1.08	1
11031	12378-PeCDD	40321-76-4	0.0480 JB	0.0179	5.41	1
11031	123478-HxCDD	39227-28-6	0.0399 JBQ	0.0118	5.41	1
11031	123678-HxCDD	57653-85-7	0.0503 JBQ	0.0126	5.41	1
11031	123789-HxCDD	19408-74-3	0.0556 JB	0.0116	5.41	1
11031	1234678-HpCDD	35822-46-9	0.362 JB	0.0137	5.41	1
11031	OCDD	3268-87-9	0.752 JB	0.0135	10.8	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.08	1
11031	12378-PeCDF	57117-41-6	0.0463 JBQ	0.00780	5.41	1
11031	23478-PeCDF	57117-31-4	0.0542 JB	0.00746	5.41	1
11031	123478-HxCDF	70648-26-9	0.0476 JB	0.00857	5.41	1
11031	123678-HxCDF	57117-44-9	0.0490 JBQ	0.00846	5.41	1
11031	123789-HxCDF	72918-21-9	0.0653 JB	0.00891	5.41	1
11031	234678-HxCDF	60851-34-5	0.0501 JB	0.00857	5.41	1
11031	1234678-HpCDF	67562-39-4	0.156 JB	0.00724	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0529 JB	0.00913	5.41	1
11031	OCDF	39001-02-0	0.185 JB	0.0131	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 08:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0130 JBQ	0.0130	1.11	1
11031	12378-PeCDD	40321-76-4	0.0404 JBQ	0.0149	5.55	1
11031	123478-HxCDD	39227-28-6	0.0248 JBQ	0.0147	5.55	1
11031	123678-HxCDD	57653-85-7	0.0516 JBQ	0.0151	5.55	1
11031	123789-HxCDD	19408-74-3	0.0572 JBQ	0.0139	5.55	1
11031	1234678-HpCDD	35822-46-9	0.414 JBQ	0.0142	5.55	1
11031	OCDD	3268-87-9	0.763 JB	0.0143	11.1	1
11031	2378-TCDF	51207-31-9	0.0239 JBQ	0.0120	1.11	1
11031	12378-PeCDF	57117-41-6	0.0455 JB	0.00794	5.55	1
11031	23478-PeCDF	57117-31-4	0.0905 JB	0.00805	5.55	1
11031	123478-HxCDF	70648-26-9	0.0543 JB	0.00861	5.55	1
11031	123678-HxCDF	57117-44-9	0.0404 JB	0.00783	5.55	1
11031	123789-HxCDF	72918-21-9	0.0484 JB	0.00850	5.55	1
11031	234678-HxCDF	60851-34-5	0.0574 JB	0.00850	5.55	1
11031	1234678-HpCDF	67562-39-4	0.164 JB	0.00682	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0455 JBQ	0.00884	5.55	1
11031	OCDF	39001-02-0	0.162 JB	0.0134	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 09:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0322 JBQ	0.0134	1.09	1
11031	12378-PeCDD	40321-76-4	0.0610 JBQ	0.0133	5.46	1
11031	123478-HxCDD	39227-28-6	0.0269 JB	0.0119	5.46	1
11031	123678-HxCDD	57653-85-7	0.0403 JBQ	0.0122	5.46	1
11031	123789-HxCDD	19408-74-3	0.0429 JBQ	0.0109	5.46	1
11031	1234678-HpCDD	35822-46-9	0.311 JB	0.0129	5.46	1
11031	OCDD	3268-87-9	0.658 JB	0.0124	10.9	1
11031	2378-TCDF	51207-31-9	0.0118 U	0.0118	1.09	1
11031	12378-PeCDF	57117-41-6	0.0422 JBQ	0.00690	5.46	1
11031	23478-PeCDF	57117-31-4	0.0630 JB	0.00668	5.46	1
11031	123478-HxCDF	70648-26-9	0.0433 JB	0.00869	5.46	1
11031	123678-HxCDF	57117-44-9	0.0307 JBQ	0.00824	5.46	1
11031	123789-HxCDF	72918-21-9	0.0456 JB	0.00780	5.46	1
11031	234678-HxCDF	60851-34-5	0.0461 JB	0.00824	5.46	1
11031	1234678-HpCDF	67562-39-4	0.148 JB	0.00590	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0288 JBQ	0.00724	5.46	1
11031	OCDF	39001-02-0	0.143 JBQ	0.0117	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 10:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249 JB	0.0112	1.04	1
11031	12378-PeCDD	40321-76-4	0.0544 JBQ	0.0121	5.18	1
11031	123478-HxCDD	39227-28-6	0.0242 JBQ	0.00923	5.18	1
11031	123678-HxCDD	57653-85-7	0.0389 JBQ	0.0102	5.18	1
11031	123789-HxCDD	19408-74-3	0.0402 JB	0.00892	5.18	1
11031	1234678-HpCDD	35822-46-9	0.254 JBQ	0.0130	5.18	1
11031	OCDD	3268-87-9	0.411 JB	0.0140	10.4	1
11031	2378-TCDF	51207-31-9	0.0261 JBQ	0.0112	1.04	1
11031	12378-PeCDF	57117-41-6	0.0572 JBQ	0.00745	5.18	1
11031	23478-PeCDF	57117-31-4	0.0773 JB	0.00672	5.18	1
11031	123478-HxCDF	70648-26-9	0.0472 JB	0.00714	5.18	1
11031	123678-HxCDF	57117-44-9	0.0455 JB	0.00703	5.18	1
11031	123789-HxCDF	72918-21-9	0.0458 JB	0.00745	5.18	1
11031	234678-HxCDF	60851-34-5	0.0382 JB	0.00661	5.18	1
11031	1234678-HpCDF	67562-39-4	0.125 JB	0.00577	5.18	1
11031	1234789-HpCDF	55673-89-7	0.0323 JB	0.00703	5.18	1
11031	OCDF	39001-02-0	0.119 JB	0.0107	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 10:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11343162402A	Sample number(s): 6488961-6488968								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11345001	Sample number(s): 6488961-6488968								
2378-TCDD	0.0310 J	0.0126	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0361 J	0.0137	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0253 J	0.0108	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0333 J	0.0116	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0445 J	0.0110	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.287 J	0.0127	5.00	ng/kg	102		70-140		
OCDD	0.453 J	0.0107	10.0	ng/kg	103		78-144		
2378-TCDF	0.0116 J	0.0115	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0502 J	0.00660	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0712 J	0.00620	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0577 J	0.00900	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0395 J	0.00850	5.00	ng/kg	104		84-130		
123789-HxCDF	0.0509 J	0.00900	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0578 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.186 J	0.00520	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0489 J	0.00670	5.00	ng/kg	102		78-138		
OCDF	0.172 J	0.0110	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11343162402A	Sample number(s): 6488961-6488968 BKG: P488950								
Moisture Content by 160.3						5.0	5.3	7	20
Batch number: 11345001	Sample number(s): 6488961-6488968 UNSPK: 6488961								
2378-TCDD	95	97	67-158	2	25				
12378-PeCDD	98	99	70-142	1	25				
123478-HxCDD	94	93	70-164	1	25				
123678-HxCDD	94	94	76-134	1	25				
123789-HxCDD	102	102	64-162	1	25				
1234678-HpCDD	100	99	70-140	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	99	97	78-144	2	25				
2378-TCDF	99	98	75-158	1	25				
12378-PeCDF	101	98	80-134	3	25				
23478-PeCDF	93	95	68-160	2	25				
123478-HxCDF	103	103	72-134	0	25				
123678-HxCDF	100	102	84-130	2	25				
123789-HxCDF	101	103	78-130	2	25				
234678-HxCDF	100	97	70-156	2	25				
1234678-HpCDF	93	92	82-122	1	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	99	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11345001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6488961	73	79	69	74	70	62
6488962	71	71	67	73	68	74
6488963	71	73	67	72	70	74
6488964	65	66	65	71	66	71
6488965	73	75	69	71	68	69
6488966	71	68	64	69	64	68
6488967	65	69	64	66	64	70
6488968	88	84	78	80	81	76
Blank	73	84	80	87	83	89
MS	71	71	67	73	68	74
MSD	71	73	67	72	70	74
OPR	66	76	74	79	76	86
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6488961	81	69	62	85	73	77
6488962	83	70	67	81	77	75
6488963	81	67	63	82	77	80
6488964	78	64	60	74	74	75
6488965	74	63	56	82	73	73
6488966	76	63	59	78	72	73
6488967	73	65	58	79	74	76
6488968	92	81	74	99	91	89
Blank	100	82	79	82	90	90
MS	83	70	67	81	77	75
MSD	81	67	63	82	77	80
OPR	92	78	80	76	79	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6488961	76	77	68	64	79	
6488962	76	79	74	59	71	
6488963	80	79	72	62	76	
6488964	78	77	67	60	70	
6488965	72	73	61	60	72	
6488966	79	76	68	60	74	
6488967	81	76	65	57	71	
6488968	96	91	84	70	84	
Blank	89	93	87	64	81	
MS	76	79	74	59	71	
MSD	80	79	72	62	76	
OPR	76	86	85	63	76	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1279336 Sample# 6433961-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY ANALYTES									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	
Samplers Signatures:															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers										
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-SS Sleeve			X	X						MS/MSD
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		MS/MSD
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-SS Sleeve			X	X						
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
Relinquished by: (*Signature*)	Date/Time 12/02/2011 / 1630		Received for Laboratory by: (*Signature*)												Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 12/2/11 0910		Airbill No.(s) 8767 9857 5030												

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 06, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/15/2011
Group Number: 1276467
SDG: DE286
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5DS-SB-1.8-2.8 Soil	6470165
SL-031-SA5DS-SB-4.0-5.0 Soil	6470166
SL-031-SA5DS-SB-9.0-10.0 Soil	6470167
SL-013-SA8S-SB-4.0-5.0 Soil	6470168

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.70	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.5	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The recovery for the sample surrogate is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is within our statistical window of 53-142%, the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.41	21.2	1
07914	Boron	7440-42-8	11.0		0.382	5.30	1
01650	Calcium	7440-70-2	4,180		2.65	21.2	1
01654	Iron	7439-89-6	24,900		2.77	21.2	1
01656	Lithium	7439-93-2	23.3		0.66	2.1	1
01657	Magnesium	7439-95-4	5,800		0.466	10.6	1
06958	Manganese	7439-96-5	331		0.0382	0.530	1
10145	Phosphorus	7723-14-0	615		0.371	10.6	1
01662	Potassium	7440-09-7	2,830		12.0	53.0	1
01667	Sodium	7440-23-5	85.6	J	6.31	106	1
07968	Strontium	7440-24-6	23.9		0.0265	0.530	1
06969	Tin	7440-31-5	2.93	J	0.339	10.6	1
06970	Titanium	7440-32-6	997		0.0753	1.06	1
10146	Zirconium	7440-67-7	8.84		0.488	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0777	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.92		0.0840	0.420	2
06126	Barium	7440-39-3	87.8		0.111	0.420	2
06127	Beryllium	7440-41-7	0.529		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.214		0.0462	0.105	2
06131	Chromium	7440-47-3	34.5		0.126	0.420	2
06132	Cobalt	7440-48-4	8.13		0.0210	0.105	2
06133	Copper	7440-50-8	7.03		0.0840	0.420	2
06135	Lead	7439-92-1	6.38		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.493		0.0525	0.105	2
06139	Nickel	7440-02-0	12.2		0.105	0.420	2
06141	Selenium	7782-49-2	0.143	J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0381	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.206		0.0315	0.105	2
06148	Vanadium	7440-62-2	58.3		0.0231	0.105	2
06149	Zinc	7440-66-6	47.3		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.21	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.27	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 02:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 01:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 00:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 10:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/20/2011 23:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 18:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470165
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0021 SDG#: DE286-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113341026001A	12/02/2011 22:43	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 18:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 18:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 10:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 17:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 14:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,100		6.61	21.9	1
07914	Boron	7440-42-8	17.5		0.393	5.46	1
01650	Calcium	7440-70-2	5,480		2.73	21.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	38,200	5.71	43.7	2
01656	Lithium	7439-93-2	39.9	0.68	2.2	1
01657	Magnesium	7439-95-4	9,430	0.481	10.9	1
06958	Manganese	7439-96-5	364	0.0393	0.546	1
10145	Phosphorus	7723-14-0	310	0.383	10.9	1
01662	Potassium	7440-09-7	4,740	12.4	54.6	1
01667	Sodium	7440-23-5	194	6.50	109	1
07968	Strontium	7440-24-6	36.0	0.0273	0.546	1
06969	Tin	7440-31-5	3.63 J	0.350	10.9	1
06970	Titanium	7440-32-6	1,540	0.0776	1.09	1
10146	Zirconium	7440-67-7	9.12	0.503	5.46	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104 J	0.0817	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.80	0.0883	0.442	2
06126	Barium	7440-39-3	124	0.117	0.442	2
06127	Beryllium	7440-41-7	0.815	0.0177	0.110	2
06128	Cadmium	7440-43-9	0.159	0.0486	0.110	2
06131	Chromium	7440-47-3	33.0	0.132	0.442	2
06132	Cobalt	7440-48-4	11.2	0.0221	0.110	2
06133	Copper	7440-50-8	16.7	0.0883	0.442	2
06135	Lead	7439-92-1	8.91	0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.371	0.0552	0.110	2
06139	Nickel	7440-02-0	21.9	0.110	0.442	2
06141	Selenium	7782-49-2	0.294 J	0.0640	0.442	2
06142	Silver	7440-22-4	0.0233 J	0.0157	0.110	2
06145	Thallium	7440-28-0	0.410	0.0331	0.110	2
06148	Vanadium	7440-62-2	65.5	0.0243	0.110	2
06149	Zinc	7440-66-6	75.7	0.618	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.29	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 02:55	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 02:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:17	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 11:38	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 10:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/20/2011 23:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470166
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0314 SDG#: DE286-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:45	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 18:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 14:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.43	J	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	8.5	J	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.80	J	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.91	J	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.83	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.85	J	0.73	1.8	1
10138	Pyrene	129-00-0	0.74	J	0.73	1.8	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,900		6.49	21.5	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	20.0		0.386	5.37	1
01650	Calcium	7440-70-2	6,370		2.68	21.5	1
01654	Iron	7439-89-6	44,600		5.60	42.9	2
01656	Lithium	7439-93-2	44.7		0.67	2.1	1
01657	Magnesium	7439-95-4	10,700		0.472	10.7	1
06958	Manganese	7439-96-5	285		0.0386	0.537	1
10145	Phosphorus	7723-14-0	503		0.376	10.7	1
01662	Potassium	7440-09-7	5,150		12.1	53.7	1
01667	Sodium	7440-23-5	198		6.39	107	1
07968	Strontium	7440-24-6	36.7		0.0268	0.537	1
06969	Tin	7440-31-5	3.11	J	0.343	10.7	1
06970	Titanium	7440-32-6	1,410		0.0762	1.07	1
10146	Zirconium	7440-67-7	7.69		0.494	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0802	U	0.0802	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.35		0.0867	0.433	2
06126	Barium	7440-39-3	114		0.115	0.433	2
06127	Beryllium	7440-41-7	0.762		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.174		0.0477	0.108	2
06131	Chromium	7440-47-3	31.3		0.130	0.433	2
06132	Cobalt	7440-48-4	11.4		0.0217	0.108	2
06133	Copper	7440-50-8	19.0		0.0850	0.425	2
06135	Lead	7439-92-1	8.86		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.149		0.0542	0.108	2
06139	Nickel	7440-02-0	21.4		0.108	0.433	2
06141	Selenium	7782-49-2	0.269	J	0.0628	0.433	2
06142	Silver	7440-22-4	0.0466	J	0.0154	0.108	2
06145	Thallium	7440-28-0	0.407		0.0325	0.108	2
06148	Vanadium	7440-62-2	59.4		0.0238	0.108	2
06149	Zinc	7440-66-6	82.6		0.607	3.25	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.32	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 03:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 02:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 11:42	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470167
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0319 SDG#: DE286-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:51	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	11/29/2011 15:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 19:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		6.40	21.2	1
07914	Boron	7440-42-8	10.1		0.381	5.29	1
01650	Calcium	7440-70-2	40,700		2.64	21.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,500		2.76	21.2	1
01656	Lithium	7439-93-2	26.0		0.66	2.1	1
01657	Magnesium	7439-95-4	5,360		0.465	10.6	1
06958	Manganese	7439-96-5	335		0.0381	0.529	1
10145	Phosphorus	7723-14-0	443		0.370	10.6	1
01662	Potassium	7440-09-7	2,560		12.0	52.9	1
01667	Sodium	7440-23-5	79.9	J	6.29	106	1
07968	Strontium	7440-24-6	38.5		0.0264	0.529	1
06969	Tin	7440-31-5	2.58	J	0.338	10.6	1
06970	Titanium	7440-32-6	918		0.0751	1.06	1
10146	Zirconium	7440-67-7	3.77	J	0.486	5.29	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0798	J	0.0783	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.25		0.0846	0.423	2
06126	Barium	7440-39-3	97.4		0.112	0.423	2
06127	Beryllium	7440-41-7	0.658		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.235		0.0465	0.106	2
06131	Chromium	7440-47-3	24.0		0.127	0.423	2
06132	Cobalt	7440-48-4	9.23		0.0212	0.106	2
06133	Copper	7440-50-8	11.3		0.0846	0.423	2
06135	Lead	7439-92-1	7.62		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.475		0.0529	0.106	2
06139	Nickel	7440-02-0	18.0		0.106	0.423	2
06141	Selenium	7782-49-2	0.182	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0203	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.295		0.0317	0.106	2
06148	Vanadium	7440-62-2	44.4		0.0233	0.106	2
06149	Zinc	7440-66-6	62.3		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11320SLK026	12/02/2011 03:43	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11320SLJ026	12/02/2011 03:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11320SLJ026	11/17/2011 11:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11320SLK026	11/17/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 01:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/28/2011 16:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470168
LLI Group # 1276467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 12/06/2011 13:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0134 SDG#: DE286-04*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:30	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11320621201A	11/16/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11320621202A	11/17/2011 19:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 14:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11320621201A	11/16/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11320621202A	11/16/2011 05:45	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11320SLJ026	Sample number(s): 6470165-6470168									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	93		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	112		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	71		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		72-119		
Batch number: 11320SLK026	Sample number(s): 6470165-6470168									
Aniline	170	U	170.	500	ug/kg	72		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170	U	170.	500	ug/kg	94		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		73-114		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	92		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	48		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	91		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	85		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	104		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		61-109		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	90		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	81		51-117		
Phenol	17	U	17.	170	ug/kg	88		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 113230004A	Sample number(s): 6470165-6470168									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113211026003A	Sample number(s): 6470165-6470168									
Antimony	0.0733	U	0.0733	0.198	mg/kg	62		40-227		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	95		83-111		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	95		84-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	96		83-111		
Chromium	0.119	U	0.119	0.396	mg/kg	103		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	96		85-114		
Lead	0.0101	U	0.0101	0.198	mg/kg	97		84-112		
Nickel	0.0990	U	0.0990	0.396	mg/kg	96		81-110		
Silver	0.0141	U	0.0141	0.0990	mg/kg	97		83-112		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	99		82-112		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		76-110		
Zinc	0.985	J	0.554	2.97	mg/kg	93		82-110		
Batch number: 113211026003B	Sample number(s): 6470165-6470168									
Selenium	0.0574	U	0.0574	0.396	mg/kg	97		79-110		
Batch number: 113211026003C	Sample number(s): 6470165-6470168									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	94		80-110		
Batch number: 113211026003D	Sample number(s): 6470165-6470168									
Barium	0.105	U	0.105	0.396	mg/kg	93		83-110		
Batch number: 113215708005	Sample number(s): 6470165-6470168									
Aluminum	8.93	J	5.82	19.2	mg/kg	76		40-127		
Boron	0.644	J	0.346	4.81	mg/kg	91		83-110		
Calcium	9.39	J	2.40	19.2	mg/kg	91		81-110		
Iron	3.43	J	2.51	19.2	mg/kg	81		47-129		
Lithium	0.60	U	0.60	1.9	mg/kg	102		80-120		
Magnesium	0.949	J	0.423	9.62	mg/kg	82		63-116		
Manganese	0.0365	J	0.0346	0.481	mg/kg	95		85-116		
Phosphorus	1.86	J	0.337	9.62	mg/kg	102		80-120		
Potassium	10.9	U	10.9	48.1	mg/kg	93		71-110		
Sodium	5.72	U	5.72	96.2	mg/kg	93		76-110		
Strontium	0.0596	J	0.0240	0.481	mg/kg	92		84-110		
Tin	1.53	J	0.308	9.62	mg/kg	90		86-120		
Titanium	0.0740	J	0.0683	0.962	mg/kg	84		80-120		
Zirconium	0.442	U	0.442	4.81	mg/kg	106		80-120		
Batch number: 113215711003	Sample number(s): 6470165-6470168									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		83-119		
Batch number: 113341026001A	Sample number(s): 6470165-6470168									
Copper	0.0777	U	0.0777	0.388	mg/kg	100		81-110		
Batch number: 11320621201A	Sample number(s): 6470165-6470168									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
Batch number: 11320621202A	Sample number(s): 6470165-6470168									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11332243201A	Sample number(s): 6470165-6470168									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11332039401A	Sample number(s): 6470165-6470168									
17a pH by 9045C						100		95-105		
Batch number: 11325162402B	Sample number(s): 6470165-6470168									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11320SLJ026	Sample number(s): 6470165-6470168 UNSPK: P465418								
Acenaphthene	89	92	63-105	3	30				
Acenaphthylene	89	93	67-114	4	30				
Anthracene	94	94	73-115	1	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	77	97	58-142	23	30				
Benzo(b)fluoranthene	78	103	54-163	28	30				
Benzo(g,h,i)perylene	61	88	33-141	35*	30				
Benzo(k)fluoranthene	81	90	57-153	10	30				
Butylbenzylphthalate	129	111	57-173	14	30				
Di-n-butylphthalate	146	121	65-148	19	30				
Chrysene	95	92	67-123	2	30				
Dibenz(a,h)anthracene	73	96	22-133	27	30				
Diethylphthalate	128	120	70-136	6	30				
Dimethylphthalate	106	110	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	151	136	39-167	11	30				
Fluoranthene	112	101	51-149	9	30				
Fluorene	97	98	66-122	2	30				
Indeno(1,2,3-cd)pyrene	70	94	21-143	30	30				
1-Methylnaphthalene	86	85	72-123	2	30				
2-Methylnaphthalene	86	85	64-103	1	30				
Naphthalene	91	88	61-102	3	30				
N-Nitrosodimethylamine	102	86	48-113	18	30				
Di-n-octylphthalate	94	138	40-192	37*	30				
Phenanthrene	95	92	62-122	4	30				
Pyrene	89	85	51-131	4	30				
Batch number: 11320SLK026	Sample number(s): 6470165-6470168 UNSPK: P465418								
Aniline	78	62	18-116	22	30				
Benzidine	0*	18*	35-141	200*	30				
Benzoic acid	102	84	10-173	20	30				
Benzyl alcohol	96	83	67-115	14	30				
4-Bromophenyl-phenylether	107	89	67-129	18	30				
Carbazole	98	83	64-120	16	30				
4-Chloro-3-methylphenol	102	88	62-122	15	30				
4-Chloroaniline	55	48	13-107	12	30				
bis(2-Chloroethoxy)methane	98	83	75-104	16	30				
bis(2-Chloroethyl)ether	95	80	60-116	17	30				
bis(2-Chloroisopropyl)ether	93	78	55-142	18	30				
2-Chloronaphthalene	79	67	50-141	16	30				
2-Chlorophenol	101	86	73-121	16	30				
4-Chlorophenyl-phenylether	98	86	80-109	13	30				
Dibenzofuran	98	85	71-112	15	30				
1,2-Dichlorobenzene	94	80	66-108	16	30				
1,3-Dichlorobenzene	92	78	63-109	16	30				
1,4-Dichlorobenzene	90	77	58-108	16	30				
3,3'-Dichlorobenzidine	61	49	28-109	22	30				
2,4-Dichlorophenol	103	89	66-123	14	30				
2,4-Dimethylphenol	105	89	68-118	17	30				
3,5-Dimethylphenol	103	88	71-127	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4,6-Dinitro-2-methylphenol	97	82	11-126	16	30				
2,4-Dinitrophenol	80	73	20-143	10	30				
2,4-Dinitrotoluene	99	87	56-129	13	30				
2,6-Dinitrotoluene	103	89	69-123	14	30				
1,2-Diphenylhydrazine	113	95	71-129	18	30				
Hexachlorobenzene	107	87	77-114	20	30				
Hexachlorobutadiene	97	83	62-120	16	30				
Hexachlorocyclopentadiene	131	92	10-153	35*	30				
Hexachloroethane	93	76	57-109	19	30				
Isophorone	98	83	73-102	16	30				
2-Methylphenol	105	89	75-111	17	30				
4-Methylphenol	94	79	59-123	17	30				
2-Nitroaniline	99	86	67-125	14	30				
3-Nitroaniline	88	80	59-122	10	30				
4-Nitroaniline	79	63	41-109	23	30				
Nitrobenzene	95	81	57-125	16	30				
2-Nitrophenol	98	84	56-127	15	30				
4-Nitrophenol	89	76	37-129	17	30				
N-Nitroso-di-n-propylamine	90	75	60-116	18	30				
N-Nitrosodiphenylamine	110	90	71-122	20	30				
Pentachlorophenol	73	76	28-127	4	30				
Phenol	94	79	58-126	17	30				
1,2,4-Trichlorobenzene	96	79	72-115	19	30				
2,4,5-Trichlorophenol	100	86	58-129	15	30				
2,4,6-Trichlorophenol	103	90	56-134	14	30				
Batch number: 113230004A	Sample number(s): 6470165-6470168 UNSPK: 6470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113211026003A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Antimony	16*	13*	75-125	9	20	0.168 J	0.108 J	44* (1)	20
Arsenic	119	150*	75-125	10	20	4.59	4.39	5	20
Beryllium	88	108	75-125	14	20	0.494	0.492	0 (1)	20
Cadmium	111	114	75-125	5	20	0.200	0.145	32* (1)	20
Chromium	112	141*	75-125	7	20	32.2	31.6	2	20
Cobalt	106	116	75-125	10	20	7.60	6.23	20	20
Lead	118	134*	75-125	6	20	5.96	5.42	9	20
Nickel	125	140*	75-125	8	20	11.4	11.2	2	20
Silver	107	106	75-125	2	20	0.0356 J	0.0244 J	38* (1)	20
Thallium	111	103	75-125	3	20	0.192	0.170	12 (1)	20
Vanadium	142 (2)	183 (2)	75-125	6	20	54.5	54.1	1	20
Zinc	110 (2)	169 (2)	75-125	11	20	44.2	41.9	5	20
Batch number: 113211026003B	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Selenium	92	105	75-125	15	20	0.134 J	0.174 J	26* (1)	20
Batch number: 113211026003C	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Molybdenum	102	105	75-125	6	20	0.461	0.438	5 (1)	20
Batch number: 113211026003D	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Barium	62 (2)	141 (2)	75-125	9	20	82.0	63.9	25*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113215708005	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
Aluminum	1462 (2)	1339 (2)	75-125	1	20	16,800	17,300	3	20
Boron	90	91	84-115	1	20	10.2	10.3	0 (1)	20
Calcium	215 (2)	238 (2)	75-125	2	20	3,910	4,000	2	20
Iron	135 (2)	269 (2)	75-125	1	20	23,200	23,500	1	20
Lithium	98	97	82-114	2	20	21.8	21.5	1	20
Magnesium	36 (2)	53 (2)	75-125	1	20	5,420	5,190	4	20
Manganese	148 (2)	118 (2)	75-125	4	20	309	329	6	20
Phosphorus	44 (2)	75 (2)	75-125	5	20	575	544	5	20
Potassium	103	126*	75-125	6	20	2,640	2,500	5	20
Sodium	97	95	75-125	1	20	80.0 J	82.5 J	3 (1)	20
Strontium	98	98	75-115	0	20	22.3	24.4	9	20
Tin	85	85	80-110	0	20	2.74 J	2.78 J	2 (1)	20
Titanium	374 (2)	331 (2)	75-125	3	20	931	974	5	20
Zirconium	94	92	81-110	2	20	8.25	10.1	20 (1)	20
Batch number: 113215711003	Sample number(s): 6470165-6470168 UNSPK: P473891 BKG: P473891								
Mercury	97	102	65-135	5	20	0.0085 J	0.0082 J	4 (1)	20
Batch number: 113341026001A	Sample number(s): 6470165-6470168 UNSPK: 6470168 BKG: 6470168								
Copper	106	110	75-125	2	20	10.5	10.9	4	20
Batch number: 11320621201A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
11a Anions by 300.0 - Fluoride	63*		80-120			1.1	1.6	39* (1)	20
Batch number: 11320621202A	Sample number(s): 6470165-6470168 UNSPK: 6470165 BKG: 6470165								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11332243201A	Sample number(s): 6470165-6470168 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401A	Sample number(s): 6470165-6470168 BKG: P473895								
17a pH by 9045C						8.71	8.72	0	3
Batch number: 11325162402B	Sample number(s): 6470165-6470168 BKG: 6470165								
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11320SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6470165	136*	96	94
6470166	133*	91	93
6470167	131*	93	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276467
Reported: 12/06/11 at 01:47 PM

Surrogate Quality Control

6470168	125	90	89
Blank	113	86	92
LCS	119	88	90
MS	126	84	80
MSD	123	86	84
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11320SLK026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6470165	96	96	99	90	97	92
6470166	92	94	102	86	92	89
6470167	94	97	100	88	94	91
6470168	101	101	94	90	97	90
Blank	88	93	92	86	91	89
LCS	93	95	95	87	91	83
MS	99	101	100	93	98	91
MSD	87	89	92	81	88	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6470165	113	126*
6470166	96	108
6470167	108	116
6470168	95	107
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1276467 6470165-68

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-SS Sleeve			X	X						
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-SS Sleeve			X	X						
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/14/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Bailey	11-15-11 915	8767 9857 4950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/15/2011
Group Number: 1276469
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA5DS-SB-1.8-2.8 Soil	6470172
SL-031-SA5DS-SB-4.0-5.0 Soil	6470173
SL-031-SA5DS-SB-9.0-10.0 Soil	6470174
SL-013-SA8S-SB-4.0-5.0 Soil	6470175

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0477 JQ	0.0424	1.04	1
11031	12378-PeCDD	40321-76-4	0.0570 J	0.0355	5.21	1
11031	123478-HxCDD	39227-28-6	0.0257 JBQ	0.0231	5.21	1
11031	123678-HxCDD	57653-85-7	0.204 JBQ	0.0241	5.21	1
11031	123789-HxCDD	19408-74-3	0.410 JB	0.0241	5.21	1
11031	1234678-HpCDD	35822-46-9	0.901 JB	0.0237	5.21	1
11031	OCDD	3268-87-9	4.74 JB	0.0219	10.4	1
11031	2378-TCDF	51207-31-9	0.0565 J	0.0426	1.04	1
11031	12378-PeCDF	57117-41-6	0.0775 JB	0.0198	5.21	1
11031	23478-PeCDF	57117-31-4	0.0966 JBQ	0.0197	5.21	1
11031	123478-HxCDF	70648-26-9	0.0173 U	0.0173	5.21	1
11031	123678-HxCDF	57117-44-9	0.0626 JB	0.0147	5.21	1
11031	123789-HxCDF	72918-21-9	0.354 JB	0.0188	5.21	1
11031	234678-HxCDF	60851-34-5	0.0647 JBQ	0.0141	5.21	1
11031	1234678-HpCDF	67562-39-4	0.164 JBQ	0.0101	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0264 JBQ	0.0143	5.21	1
11031	OCDF	39001-02-0	0.323 JB	0.0266	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DS-SB-1.8-2.8 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DS-SB

LLI Sample # SW 6470172
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 09:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0021 SDG#: DX155-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 17:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0469 U	0.0469	1.07	1
11031	12378-PeCDD	40321-76-4	0.101 JQ	0.0339	5.36	1
11031	123478-HxCDD	39227-28-6	0.0269 U	0.0269	5.36	1
11031	123678-HxCDD	57653-85-7	0.250 JBQ	0.0280	5.36	1
11031	123789-HxCDD	19408-74-3	0.174 JBQ	0.0279	5.36	1
11031	1234678-HpCDD	35822-46-9	0.865 JB	0.0281	5.36	1
11031	OCDD	3268-87-9	2.31 JB	0.0202	10.7	1
11031	2378-TCDF	51207-31-9	0.0333 U	0.0333	1.07	1
11031	12378-PeCDF	57117-41-6	0.0297 JBQ	0.0172	5.36	1
11031	23478-PeCDF	57117-31-4	0.0469 JBQ	0.0165	5.36	1
11031	123478-HxCDF	70648-26-9	0.0385 JBQ	0.0155	5.36	1
11031	123678-HxCDF	57117-44-9	0.0170 JBQ	0.0136	5.36	1
11031	123789-HxCDF	72918-21-9	0.0673 JBQ	0.0165	5.36	1
11031	234678-HxCDF	60851-34-5	0.0427 JBQ	0.0128	5.36	1
11031	1234678-HpCDF	67562-39-4	0.129 JB	0.0107	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0387 JBQ	0.0164	5.36	1
11031	OCDF	39001-02-0	0.179 JB	0.0281	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470173
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 10:40

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0314 SDG#: DX155-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 18:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0449 U	0.0449	1.11	1
11031	12378-PeCDD	40321-76-4	0.0348 U	0.0348	5.57	1
11031	123478-HxCDD	39227-28-6	0.0458 JB	0.0257	5.57	1
11031	123678-HxCDD	57653-85-7	0.0913 JBQ	0.0262	5.57	1
11031	123789-HxCDD	19408-74-3	0.0672 JB	0.0262	5.57	1
11031	1234678-HpCDD	35822-46-9	0.450 JBQ	0.0249	5.57	1
11031	OCDD	3268-87-9	2.45 JB	0.0235	11.1	1
11031	2378-TCDF	51207-31-9	0.0330 U	0.0330	1.11	1
11031	12378-PeCDF	57117-41-6	0.0519 JB	0.0170	5.57	1
11031	23478-PeCDF	57117-31-4	0.0422 JB	0.0164	5.57	1
11031	123478-HxCDF	70648-26-9	0.0401 JBQ	0.0143	5.57	1
11031	123678-HxCDF	57117-44-9	0.0350 JBQ	0.0127	5.57	1
11031	123789-HxCDF	72918-21-9	0.0350 JBQ	0.0148	5.57	1
11031	234678-HxCDF	60851-34-5	0.0548 JB	0.0117	5.57	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.0115	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0445 JBQ	0.0173	5.57	1
11031	OCDF	39001-02-0	0.229 JB	0.0324	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DS-SB

LLI Sample # SW 6470174
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 11:25

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0319 SDG#: DX155-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 19:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444	U	0.0444	1.07	1
11031	12378-PeCDD	40321-76-4	0.0309	U	0.0309	5.35	1
11031	123478-HxCDD	39227-28-6	0.0213	U	0.0213	5.35	1
11031	123678-HxCDD	57653-85-7	0.0431	JBQ	0.0215	5.35	1
11031	123789-HxCDD	19408-74-3	0.0383	JB	0.0211	5.35	1
11031	1234678-HpCDD	35822-46-9	0.375	JB	0.0294	5.35	1
11031	OCDD	3268-87-9	1.47	JB	0.0227	10.7	1
11031	2378-TCDF	51207-31-9	0.0399	U	0.0399	1.07	1
11031	12378-PeCDF	57117-41-6	0.0176	U	0.0176	5.35	1
11031	23478-PeCDF	57117-31-4	0.0173	U	0.0173	5.35	1
11031	123478-HxCDF	70648-26-9	0.0533	JBQ	0.0138	5.35	1
11031	123678-HxCDF	57117-44-9	0.0159	JBQ	0.0128	5.35	1
11031	123789-HxCDF	72918-21-9	0.0524	JBQ	0.0148	5.35	1
11031	234678-HxCDF	60851-34-5	0.0400	JBQ	0.0117	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0864	JBQ	0.0100	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0659	JBQ	0.0150	5.35	1
11031	OCDF	39001-02-0	0.223	JBQ	0.0379	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SB

LLI Sample # SW 6470175
LLI Group # 1276469
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/14/2011 14:05

Submitted: 11/15/2011 09:15
Reported: 11/30/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0134 SDG#: DX155-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 19:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276469
Reported: 11/30/11 at 12:50 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11325162402B	Sample number(s): 6470172-6470175								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6470172-6470175								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11325162402B	Sample number(s): 6470172-6470175					BKG: P470165			
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1276469
Reported: 11/30/11 at 12:50 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6470172	65	75	60	68	73	65
6470173	72	80	68	78	83	75
6470174	70	81	64	74	81	74
6470175	69	78	66	73	79	72
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6470172	80	67	71	77	77	75
6470173	94	75	80	84	88	87
6470174	92	74	78	84	87	86
6470175	86	72	70	79	82	83
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6470172	73	77	86	65	80
6470173	84	90	98	69	87
6470174	85	89	97	69	87
6470175	81	84	90	69	83
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1276469 6470172-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-SS Sleeve			X	X						
SL-002-SA5DS-SB-1.8-2.8	11.14.11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-4.0-5.0	11.14.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-SS Sleeve			X	X						
SL-031-SA5DS-SB-9.0-10.0	11.14.11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-SS Sleeve			X	X						
SL-013-SA8S-SB-4.0-5.0	11.14.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/14/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Ruby	11-15-11 915	8767 9857 4950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/17/2011
Group Number: 1277028
SDG: DE287
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8S-SB-4.0-5.0 Soil	6473891
SL-005-SA8S-SB-3.5-4.5 Soil	6473892
SL-009-SA8S-SB-4.0-5.0 Soil	6473893
SL-009-SA8S-SB-7.0-8.0 Soil	6473894
SL-024-SA8S-SB-4.0-5.0 Soil	6473895
SL-024-SA8S-SB-7.0-8.0 Soil	6473896

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

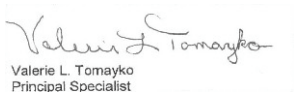
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.78	22.4	1
07914	Boron	7440-42-8	15.3		0.404	5.61	1
01650	Calcium	7440-70-2	172,000		14.0	112	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,700		2.93	22.4	1
01656	Lithium	7439-93-2	16.1		0.70	2.2	1
01657	Magnesium	7439-95-4	5,530		0.493	11.2	1
06958	Manganese	7439-96-5	382		0.0404	0.561	1
10145	Phosphorus	7723-14-0	282		0.392	11.2	1
01662	Potassium	7440-09-7	2,580		12.7	56.1	1
01667	Sodium	7440-23-5	242		6.67	112	1
07968	Strontium	7440-24-6	219		0.0280	0.561	1
06969	Tin	7440-31-5	2.48	J	0.359	11.2	1
06970	Titanium	7440-32-6	543		0.0796	1.12	1
10146	Zirconium	7440-67-7	3.96	J	0.516	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0830	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.29		0.0897	0.448	2
06126	Barium	7440-39-3	84.3		0.119	0.448	2
06127	Beryllium	7440-41-7	0.625		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.456		0.0493	0.112	2
06131	Chromium	7440-47-3	30.7		0.135	0.448	2
06132	Cobalt	7440-48-4	9.54		0.0224	0.112	2
06133	Copper	7440-50-8	15.1		0.0888	0.444	2
06135	Lead	7439-92-1	10.8		0.0114	0.224	2
06138	Molybdenum	7439-98-7	0.317		0.0561	0.112	2
06139	Nickel	7440-02-0	23.5		0.112	0.448	2
06141	Selenium	7782-49-2	0.201	J	0.0650	0.448	2
06142	Silver	7440-22-4	0.0159	U	0.0159	0.112	2
06145	Thallium	7440-28-0	0.244		0.0336	0.112	2
06148	Vanadium	7440-62-2	53.0		0.0247	0.112	2
06149	Zinc	7440-66-6	54.5		0.628	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0080	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.70	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 09:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 12:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:45	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473891
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8701 SDG#: DE287-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:53	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 05:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 17:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.53	21.6	1
07914	Boron	7440-42-8	17.6		0.389	5.40	1
01650	Calcium	7440-70-2	161,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	18,800		2.82	21.6	1
01656	Lithium	7439-93-2	15.0		0.67	2.2	1
01657	Magnesium	7439-95-4	6,040		0.475	10.8	1
06958	Manganese	7439-96-5	305		0.0389	0.540	1
10145	Phosphorus	7723-14-0	349		0.378	10.8	1
01662	Potassium	7440-09-7	2,780		12.2	54.0	1
01667	Sodium	7440-23-5	1,030		6.42	108	1
07968	Strontium	7440-24-6	256		0.0270	0.540	1
06969	Tin	7440-31-5	2.21	J	0.345	10.8	1
06970	Titanium	7440-32-6	620		0.0766	1.08	1
10146	Zirconium	7440-67-7	4.75	J	0.496	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0854	J	0.0822	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.98		0.0889	0.444	2
06126	Barium	7440-39-3	114		0.118	0.444	2
06127	Beryllium	7440-41-7	0.568		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.240		0.0489	0.111	2
06131	Chromium	7440-47-3	28.5		0.133	0.444	2
06132	Cobalt	7440-48-4	8.89		0.0222	0.111	2
06133	Copper	7440-50-8	14.9		0.0880	0.440	2
06135	Lead	7439-92-1	9.50		0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.296		0.0556	0.111	2
06139	Nickel	7440-02-0	17.5		0.111	0.444	2
06141	Selenium	7782-49-2	0.181	J	0.0645	0.444	2
06142	Silver	7440-22-4	0.0158	U	0.0158	0.111	2
06145	Thallium	7440-28-0	0.220		0.0333	0.111	2
06148	Vanadium	7440-62-2	49.4		0.0244	0.111	2
06149	Zinc	7440-66-6	48.1		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0188	J	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.8		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	9.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 10:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 15:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:49	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	2	113215708005	11/28/2011 16:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473892
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8702 SDG#: DE287-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:55	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 19:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 06:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 18:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,800		6.64	22.0	1
07914	Boron	7440-42-8	13.5		0.395	5.49	1
01650	Calcium	7440-70-2	79,200		5.49	43.9	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,000	2.86	22.0	1
01656	Lithium	7439-93-2	31.1	0.68	2.2	1
01657	Magnesium	7439-95-4	7,210	0.483	11.0	1
06958	Manganese	7439-96-5	271	0.0395	0.549	1
10145	Phosphorus	7723-14-0	461	0.384	11.0	1
01662	Potassium	7440-09-7	3,580	12.4	54.9	1
01667	Sodium	7440-23-5	180	6.53	110	1
07968	Strontium	7440-24-6	100	0.0274	0.549	1
06969	Tin	7440-31-5	3.04 J	0.351	11.0	1
06970	Titanium	7440-32-6	631	0.0779	1.10	1
10146	Zirconium	7440-67-7	6.59	0.505	5.49	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0836 U	0.0836	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.31	0.0904	0.452	2
06126	Barium	7440-39-3	67.4	0.120	0.452	2
06127	Beryllium	7440-41-7	0.634	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.355	0.0497	0.113	2
06131	Chromium	7440-47-3	30.0	0.136	0.452	2
06132	Cobalt	7440-48-4	9.27	0.0226	0.113	2
06133	Copper	7440-50-8	17.0	0.0904	0.452	2
06135	Lead	7439-92-1	9.07	0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.235	0.0565	0.113	2
06139	Nickel	7440-02-0	17.3	0.113	0.452	2
06141	Selenium	7782-49-2	0.250 J	0.0656	0.452	2
06142	Silver	7440-22-4	0.0229 J	0.0160	0.113	2
06145	Thallium	7440-28-0	0.293	0.0339	0.113	2
06148	Vanadium	7440-62-2	41.8	0.0249	0.113	2
06149	Zinc	7440-66-6	47.1	0.633	3.39	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.65	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 16:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 02:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/28/2011 17:03	John P Hook	2
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:15	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473893
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8703 SDG#: DE287-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:57	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 06:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 19:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 15:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.52	21.5	1
07914	Boron	7440-42-8	10.2		0.388	5.39	1
01650	Calcium	7440-70-2	177,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	14,500		2.81	21.5	1
01656	Lithium	7439-93-2	15.7		0.67	2.2	1
01657	Magnesium	7439-95-4	4,280		0.474	10.8	1
06958	Manganese	7439-96-5	516		0.0388	0.539	1
10145	Phosphorus	7723-14-0	346		0.377	10.8	1
01662	Potassium	7440-09-7	2,270		12.2	53.9	1
01667	Sodium	7440-23-5	155		6.41	108	1
07968	Strontium	7440-24-6	166		0.0269	0.539	1
06969	Tin	7440-31-5	2.38	J	0.345	10.8	1
06970	Titanium	7440-32-6	374		0.0765	1.08	1
10146	Zirconium	7440-67-7	3.53	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774	U	0.0774	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.06		0.0837	0.419	2
06126	Barium	7440-39-3	61.2		0.111	0.419	2
06127	Beryllium	7440-41-7	0.586		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.322		0.0460	0.105	2
06131	Chromium	7440-47-3	26.6		0.126	0.419	2
06132	Cobalt	7440-48-4	8.41		0.0209	0.105	2
06133	Copper	7440-50-8	9.74		0.0862	0.431	2
06135	Lead	7439-92-1	8.28		0.0107	0.209	2
06138	Molybdenum	7439-98-7	0.246		0.0523	0.105	2
06139	Nickel	7440-02-0	15.3		0.105	0.419	2
06141	Selenium	7782-49-2	0.185	J	0.0607	0.419	2
06142	Silver	7440-22-4	0.0191	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.254		0.0314	0.105	2
06148	Vanadium	7440-62-2	37.1		0.0230	0.105	2
06149	Zinc	7440-66-6	42.3		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.75	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 20:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 11:57	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:30	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473894
LLI Group # 1277028
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8704 SDG#: DE287-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 22:59	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 19:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.60	21.8	1
07914	Boron	7440-42-8	11.8		0.393	5.45	1
01650	Calcium	7440-70-2	109,000		13.6	109	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	20,800		2.85	21.8	1
01656	Lithium	7439-93-2	21.5		0.68	2.2	1
01657	Magnesium	7439-95-4	5,150		0.480	10.9	1
06958	Manganese	7439-96-5	296		0.0393	0.545	1
10145	Phosphorus	7723-14-0	397		0.382	10.9	1
01662	Potassium	7440-09-7	2,800		12.3	54.5	1
01667	Sodium	7440-23-5	123		6.49	109	1
07968	Strontium	7440-24-6	128		0.0273	0.545	1
06969	Tin	7440-31-5	2.77	J	0.349	10.9	1
06970	Titanium	7440-32-6	518		0.0775	1.09	1
10146	Zirconium	7440-67-7	4.81	J	0.502	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0831	U	0.0831	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.01		0.0899	0.449	2
06126	Barium	7440-39-3	67.0		0.119	0.449	2
06127	Beryllium	7440-41-7	0.629		0.0180	0.112	2
06128	Cadmium	7440-43-9	0.205		0.0494	0.112	2
06131	Chromium	7440-47-3	31.7		0.135	0.449	2
06132	Cobalt	7440-48-4	7.51		0.0225	0.112	2
06133	Copper	7440-50-8	10.1		0.0873	0.436	2
06135	Lead	7439-92-1	6.58		0.0115	0.225	2
06138	Molybdenum	7439-98-7	0.214		0.0562	0.112	2
06139	Nickel	7440-02-0	14.3		0.112	0.449	2
06141	Selenium	7782-49-2	0.192	J	0.0652	0.449	2
06142	Silver	7440-22-4	0.0160	U	0.0160	0.112	2
06145	Thallium	7440-28-0	0.267		0.0337	0.112	2
06148	Vanadium	7440-62-2	44.8		0.0247	0.112	2
06149	Zinc	7440-66-6	44.2		0.629	3.37	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.71	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 11:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 20:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 12:00	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473895
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8705 SDG#: DE287-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 23:01	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 20:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401A	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		6.66	22.0	1
07914	Boron	7440-42-8	13.1		0.397	5.51	1
01650	Calcium	7440-70-2	92,400		5.51	44.1	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	30,500	5.75	44.1	2
01656	Lithium	7439-93-2	30.0	0.68	2.2	1
01657	Magnesium	7439-95-4	6,500	0.485	11.0	1
06958	Manganese	7439-96-5	246	0.0397	0.551	1
10145	Phosphorus	7723-14-0	462	0.385	11.0	1
01662	Potassium	7440-09-7	3,350	12.4	55.1	1
01667	Sodium	7440-23-5	123	6.55	110	1
07968	Strontium	7440-24-6	122	0.0275	0.551	1
06969	Tin	7440-31-5	2.93 J	0.352	11.0	1
06970	Titanium	7440-32-6	624	0.0782	1.10	1
10146	Zirconium	7440-67-7	5.54	0.507	5.51	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0969 J	0.0807	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	8.53	0.0873	0.436	2
06126	Barium	7440-39-3	94.0	0.116	0.436	2
06127	Beryllium	7440-41-7	0.844	0.0175	0.109	2
06128	Cadmium	7440-43-9	0.336	0.0480	0.109	2
06131	Chromium	7440-47-3	40.5	0.131	0.436	2
06132	Cobalt	7440-48-4	15.6	0.0218	0.109	2
06133	Copper	7440-50-8	13.1	0.0890	0.445	2
06135	Lead	7439-92-1	10.7	0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.352	0.0545	0.109	2
06139	Nickel	7440-02-0	23.4	0.109	0.436	2
06141	Selenium	7782-49-2	0.217 J	0.0633	0.436	2
06142	Silver	7440-22-4	0.0176 J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.409	0.0327	0.109	2
06148	Vanadium	7440-62-2	65.1	0.0240	0.109	2
06149	Zinc	7440-66-6	67.1	0.611	3.27	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106 J	0.0077	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 12:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 21:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 03:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113215708005	11/26/2011 12:11	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113215708005	11/26/2011 12:11	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113215708005	11/26/2011 11:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113215708005	11/21/2011 00:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113211026003D	11/29/2011 15:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473896
LLI Group # 1277028
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/14/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8706 SDG#: DE287-06*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06133	Copper	SW-846 6020	2	113341026001A	12/02/2011 23:03	David K Beck	2
06135	Lead	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113211026003C	11/29/2011 15:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113211026003B	12/02/2011 07:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113211026003A	11/29/2011 15:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113215711003	11/19/2011 11:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113215708005	11/18/2011 08:30	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113211026003	11/18/2011 08:43	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113341026001	12/01/2011 11:35	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113215711003	11/18/2011 09:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11321373202A	11/19/2011 07:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11321373201A	11/18/2011 20:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 17:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11321373202A	11/17/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11321373201A	11/17/2011 17:30	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11326SLE026	Sample number(s): 6473891-6473896									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6473891-6473896									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 113230004A	Sample number(s): 6473891-6473896									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113211026003A	Sample number(s): 6473891-6473896									
Antimony	0.0733	U	0.0733	0.198	mg/kg	62		40-227		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	95		83-111		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	95		84-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	96		83-111		
Chromium	0.119	U	0.119	0.396	mg/kg	103		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	96		85-114		
Lead	0.0101	U	0.0101	0.198	mg/kg	97		84-112		
Nickel	0.0990	U	0.0990	0.396	mg/kg	96		81-110		
Silver	0.0141	U	0.0141	0.0990	mg/kg	97		83-112		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	99		82-112		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	98		76-110		
Zinc	0.985	J	0.554	2.97	mg/kg	93		82-110		
Batch number: 113211026003B	Sample number(s): 6473891-6473896									
Selenium	0.0574	U	0.0574	0.396	mg/kg	97		79-110		
Batch number: 113211026003C	Sample number(s): 6473891-6473896									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	94		80-110		
Batch number: 113211026003D	Sample number(s): 6473891-6473896									
Barium	0.105	U	0.105	0.396	mg/kg	93		83-110		
Batch number: 113215708005	Sample number(s): 6473891-6473896									
Aluminum	8.93	J	5.82	19.2	mg/kg	76		40-127		
Boron	0.644	J	0.346	4.81	mg/kg	91		83-110		
Calcium	9.39	J	2.40	19.2	mg/kg	91		81-110		
Iron	3.43	J	2.51	19.2	mg/kg	81		47-129		
Lithium	0.60	U	0.60	1.9	mg/kg	102		80-120		
Magnesium	0.949	J	0.423	9.62	mg/kg	82		63-116		
Manganese	0.0365	J	0.0346	0.481	mg/kg	95		85-116		
Phosphorus	1.86	J	0.337	9.62	mg/kg	102		80-120		
Potassium	10.9	U	10.9	48.1	mg/kg	93		71-110		
Sodium	5.72	U	5.72	96.2	mg/kg	93		76-110		
Strontium	0.0596	J	0.0240	0.481	mg/kg	92		84-110		
Tin	1.53	J	0.308	9.62	mg/kg	90		86-120		
Titanium	0.0740	J	0.0683	0.962	mg/kg	84		80-120		
Zirconium	0.442	U	0.442	4.81	mg/kg	106		80-120		
Batch number: 113215711003	Sample number(s): 6473891-6473896									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		83-119		
Batch number: 113341026001A	Sample number(s): 6473891-6473896									
Copper	0.0777	U	0.0777	0.388	mg/kg	100		81-110		
Batch number: 11321373201A	Sample number(s): 6473891-6473896									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11321373202A	Sample number(s): 6473891-6473896									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
Batch number: 11332243201A	Sample number(s): 6473891-6473896									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11332039401A	Sample number(s): 6473891-6473895									
17a pH by 9045C						100		95-105		
Batch number: 11332039401B	Sample number(s): 6473896									
17a pH by 9045C						100		95-105		
Batch number: 11325162402B	Sample number(s): 6473891-6473896									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6473891-6473896 UNSPK: 6473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6473891-6473896 UNSPK: 6473891								
Acenaphthene	94	91	63-105	3	30				
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113230004A	Sample number(s): 6473891-6473896 UNSPK: P470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113211026003A	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Antimony	16*	13*	75-125	9	20	0.168 J	0.108 J	44* (1)	20
Arsenic	119	150*	75-125	10	20	4.59	4.39	5	20
Beryllium	88	108	75-125	14	20	0.494	0.492	0 (1)	20
Cadmium	111	114	75-125	5	20	0.200	0.145	32* (1)	20
Chromium	112	141*	75-125	7	20	32.2	31.6	2	20
Cobalt	106	116	75-125	10	20	7.60	6.23	20	20
Lead	118	134*	75-125	6	20	5.96	5.42	9	20
Nickel	125	140*	75-125	8	20	11.4	11.2	2	20
Silver	107	106	75-125	2	20	0.0356 J	0.0244 J	38* (1)	20
Thallium	111	103	75-125	3	20	0.192	0.170	12 (1)	20
Vanadium	142 (2)	183 (2)	75-125	6	20	54.5	54.1	1	20
Zinc	110 (2)	169 (2)	75-125	11	20	44.2	41.9	5	20
Batch number: 113211026003B	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Selenium	92	105	75-125	15	20	0.134 J	0.174 J	26* (1)	20
Batch number: 113211026003C	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Molybdenum	102	105	75-125	6	20	0.461	0.438	5 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113211026003D	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Barium	62 (2)	141 (2)	75-125	9	20	82.0	63.9	25*	20
Batch number: 113215708005	Sample number(s): 6473891-6473896 UNSPK: P470165 BKG: P470165								
Aluminum	1462 (2)	1339 (2)	75-125	1	20	16,800	17,300	3	20
Boron	90	91	84-115	1	20	10.2	10.3	0 (1)	20
Calcium	215 (2)	238 (2)	75-125	2	20	3,910	4,000	2	20
Iron	135 (2)	269 (2)	75-125	1	20	23,200	23,500	1	20
Lithium	98	97	82-114	2	20	21.8	21.5	1	20
Magnesium	36 (2)	53 (2)	75-125	1	20	5,420	5,190	4	20
Manganese	148 (2)	118 (2)	75-125	4	20	309	329	6	20
Phosphorus	44 (2)	75 (2)	75-125	5	20	575	544	5	20
Potassium	103	126*	75-125	6	20	2,640	2,500	5	20
Sodium	97	95	75-125	1	20	80.0 J	82.5 J	3 (1)	20
Strontium	98	98	75-115	0	20	22.3	24.4	9	20
Tin	85	85	80-110	0	20	2.74 J	2.78 J	2 (1)	20
Titanium	374 (2)	331 (2)	75-125	3	20	931	974	5	20
Zirconium	94	92	81-110	2	20	8.25	10.1	20 (1)	20
Batch number: 113215711003	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
Mercury	97	102	65-135	5	20	0.0085 J	0.0082 J	4 (1)	20
Batch number: 113341026001A	Sample number(s): 6473891-6473896 UNSPK: P470168 BKG: P470168								
Copper	106	110	75-125	2	20	10.5	10.9	4	20
Batch number: 11321373201A	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11321373202A	Sample number(s): 6473891-6473896 UNSPK: 6473891 BKG: 6473891								
11a Anions by 300.0 - Fluoride	73*		80-120			4.4	4.3	3 (1)	20
Batch number: 11332243201A	Sample number(s): 6473891-6473896 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401A	Sample number(s): 6473891-6473895 BKG: 6473895								
17a pH by 9045C						8.71	8.72	0	3
Batch number: 11332039401B	Sample number(s): 6473896 BKG: P477491								
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11325162402B	Sample number(s): 6473891-6473896 BKG: P470165								
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277028
Reported: 12/14/11 at 05:08 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6473891	72	75	73	69	69	65
6473892	70	72	63	66	67	63
6473893	90	93	72	82	83	82
6473894	92	93	79	80	82	81
6473895	95	96	74	81	86	84
6473896	97	99	87	85	89	84
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59
MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6473891	96	91	85
6473892	101	77	92
6473893	101	90	90
6473894	97	88	93
6473895	88	81	84
6473896	96	88	89
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6473891	136	146*
6473892	116	128*
6473893	103	109
6473894	116	118
6473895	105	112
6473896	106	117
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1277028 Sample# 6473891-96

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-SS Sleeve			X	X						
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-SS Sleeve			X	X						
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	11/16/2011 / 1630	LLI 11/17/11 0900		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
		8767 9857 4961		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/17/2011
Group Number: 1277029
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-007-SA8S-SB-4.0-5.0 Soil	6473897
SL-005-SA8S-SB-3.5-4.5 Soil	6473898
SL-009-SA8S-SB-4.0-5.0 Soil	6473899
SL-009-SA8S-SB-7.0-8.0 Soil	6473900
SL-024-SA8S-SB-4.0-5.0 Soil	6473901
SL-024-SA8S-SB-7.0-8.0 Soil	6473902

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0606 U	0.0606	1.12	1
11031	12378-PeCDD	40321-76-4	0.0425 U	0.0425	5.62	1
11031	123478-HxCDD	39227-28-6	0.0298 JBQ	0.0210	5.62	1
11031	123678-HxCDD	57653-85-7	0.0331 JBQ	0.0223	5.62	1
11031	123789-HxCDD	19408-74-3	0.0478 JBQ	0.0234	5.62	1
11031	1234678-HpCDD	35822-46-9	0.348 JB	0.0239	5.62	1
11031	OCDD	3268-87-9	0.665 JB	0.0227	11.2	1
11031	2378-TCDF	51207-31-9	0.0401 U	0.0401	1.12	1
11031	12378-PeCDF	57117-41-6	0.0193 U	0.0193	5.62	1
11031	23478-PeCDF	57117-31-4	0.0590 JBQ	0.0178	5.62	1
11031	123478-HxCDF	70648-26-9	0.0394 JBQ	0.0167	5.62	1
11031	123678-HxCDF	57117-44-9	0.0425 JBQ	0.0143	5.62	1
11031	123789-HxCDF	72918-21-9	0.0361 JBQ	0.0184	5.62	1
11031	234678-HxCDF	60851-34-5	0.0204 JBQ	0.0127	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0733 JBQ	0.0111	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0171	5.62	1
11031	OCDF	39001-02-0	0.0860 JB	0.0378	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SB

LLI Sample # SW 6473897
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 09:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5507 SDG#: DX155-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 20:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0502	J	0.0448	1.11	1
11031	12378-PeCDD	40321-76-4	0.0336	U	0.0336	5.53	1
11031	123478-HxCDD	39227-28-6	0.0214	U	0.0214	5.53	1
11031	123678-HxCDD	57653-85-7	0.0238	JBQ	0.0228	5.53	1
11031	123789-HxCDD	19408-74-3	0.0450	JBQ	0.0212	5.53	1
11031	1234678-HpCDD	35822-46-9	0.256	JBQ	0.0245	5.53	1
11031	OCDD	3268-87-9	0.479	JB	0.0201	11.1	1
11031	2378-TCDF	51207-31-9	0.0309	U	0.0309	1.11	1
11031	12378-PeCDF	57117-41-6	0.112	JB	0.0187	5.53	1
11031	23478-PeCDF	57117-31-4	0.124	JBQ	0.0181	5.53	1
11031	123478-HxCDF	70648-26-9	0.0612	JBQ	0.0167	5.53	1
11031	123678-HxCDF	57117-44-9	0.0489	JBQ	0.0136	5.53	1
11031	123789-HxCDF	72918-21-9	0.0553	JB	0.0159	5.53	1
11031	234678-HxCDF	60851-34-5	0.0651	JB	0.0128	5.53	1
11031	1234678-HpCDF	67562-39-4	0.106	JB	0.00932	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0196	JB	0.0159	5.53	1
11031	OCDF	39001-02-0	0.150	JB	0.0341	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	101	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	110	23 - 140
13C12-OCDD	121	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA8S-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SB

LLI Sample # SW 6473898
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/15/2011 13:45

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5508 SDG#: DX155-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/29/2011 21:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0695 JQ	0.0392	1.09	1
11031	12378-PeCDD	40321-76-4	0.0806 JQ	0.0320	5.45	1
11031	123478-HxCDD	39227-28-6	0.0457 JB	0.0263	5.45	1
11031	123678-HxCDD	57653-85-7	0.0370 JBQ	0.0251	5.45	1
11031	123789-HxCDD	19408-74-3	0.0817 JB	0.0249	5.45	1
11031	1234678-HpCDD	35822-46-9	0.256 JB	0.0223	5.45	1
11031	OCDD	3268-87-9	0.706 JBQ	0.0204	10.9	1
11031	2378-TCDF	51207-31-9	0.0375 JQ	0.0305	1.09	1
11031	12378-PeCDF	57117-41-6	0.0721 JBQ	0.0161	5.45	1
11031	23478-PeCDF	57117-31-4	0.0796 JB	0.0155	5.45	1
11031	123478-HxCDF	70648-26-9	0.0610 JB	0.0183	5.45	1
11031	123678-HxCDF	57117-44-9	0.0734 JB	0.0166	5.45	1
11031	123789-HxCDF	72918-21-9	0.108 JB	0.0174	5.45	1
11031	234678-HxCDF	60851-34-5	0.0889 JBQ	0.0160	5.45	1
11031	1234678-HpCDF	67562-39-4	0.102 JB	0.0112	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0188	5.45	1
11031	OCDF	39001-02-0	0.128 JB	0.0328	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-009-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473899
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 11:35

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5509 SDG#: DX155-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 12:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0447	U	0.0447	1.07	1
11031	12378-PeCDD	40321-76-4	0.0334	U	0.0334	5.35	1
11031	123478-HxCDD	39227-28-6	0.0311	JB	0.0202	5.35	1
11031	123678-HxCDD	57653-85-7	0.0305	JB	0.0210	5.35	1
11031	123789-HxCDD	19408-74-3	0.0524	JB	0.0202	5.35	1
11031	1234678-HpCDD	35822-46-9	0.298	JB	0.0247	5.35	1
11031	OCDD	3268-87-9	0.646	JB	0.0195	10.7	1
11031	2378-TCDF	51207-31-9	0.0317	U	0.0317	1.07	1
11031	12378-PeCDF	57117-41-6	0.0378	JBQ	0.0175	5.35	1
11031	23478-PeCDF	57117-31-4	0.0493	JB	0.0158	5.35	1
11031	123478-HxCDF	70648-26-9	0.0320	JBQ	0.0159	5.35	1
11031	123678-HxCDF	57117-44-9	0.0297	JBQ	0.0141	5.35	1
11031	123789-HxCDF	72918-21-9	0.0332	JBQ	0.0160	5.35	1
11031	234678-HxCDF	60851-34-5	0.0535	JBQ	0.0136	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0934	JB	0.0111	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0277	JB	0.0160	5.35	1
11031	OCDF	39001-02-0	0.104	JB	0.0362	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SB

LLI Sample # SW 6473900
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 12:05

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5510 SDG#: DX155-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	1.10	1
11031	12378-PeCDD	40321-76-4	0.0315 U	0.0315	5.52	1
11031	123478-HxCDD	39227-28-6	0.0239 JBQ	0.0231	5.52	1
11031	123678-HxCDD	57653-85-7	0.0333 JB	0.0226	5.52	1
11031	123789-HxCDD	19408-74-3	0.0230 U	0.0230	5.52	1
11031	1234678-HpCDD	35822-46-9	0.296 JBQ	0.0198	5.52	1
11031	OCDD	3268-87-9	1.01 JB	0.0211	11.0	1
11031	2378-TCDF	51207-31-9	0.0300 U	0.0300	1.10	1
11031	12378-PeCDF	57117-41-6	0.0207 JB	0.0152	5.52	1
11031	23478-PeCDF	57117-31-4	0.0530 JB	0.0147	5.52	1
11031	123478-HxCDF	70648-26-9	0.0503 JBQ	0.0128	5.52	1
11031	123678-HxCDF	57117-44-9	0.0331 JBQ	0.0108	5.52	1
11031	123789-HxCDF	72918-21-9	0.0303 JBQ	0.0140	5.52	1
11031	234678-HxCDF	60851-34-5	0.0263 JB	0.0115	5.52	1
11031	1234678-HpCDF	67562-39-4	0.113 JBQ	0.00955	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0211 JBQ	0.0155	5.52	1
11031	OCDF	39001-02-0	0.174 JBQ	0.0308	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-024-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473901
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 09:30

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5511 SDG#: DX155-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 14:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0388 U	0.0388	1.12	1
11031	12378-PeCDD	40321-76-4	0.0320 U	0.0320	5.62	1
11031	123478-HxCDD	39227-28-6	0.0325 JB	0.0221	5.62	1
11031	123678-HxCDD	57653-85-7	0.0358 JBQ	0.0229	5.62	1
11031	123789-HxCDD	19408-74-3	0.0409 JBQ	0.0237	5.62	1
11031	1234678-HpCDD	35822-46-9	0.307 JBQ	0.0258	5.62	1
11031	OCDD	3268-87-9	0.810 JB	0.0197	11.2	1
11031	2378-TCDF	51207-31-9	0.0302 U	0.0302	1.12	1
11031	12378-PeCDF	57117-41-6	0.0144 U	0.0144	5.62	1
11031	23478-PeCDF	57117-31-4	0.0338 JBQ	0.0144	5.62	1
11031	123478-HxCDF	70648-26-9	0.0260 JBQ	0.0143	5.62	1
11031	123678-HxCDF	57117-44-9	0.0119 U	0.0119	5.62	1
11031	123789-HxCDF	72918-21-9	0.0164 JBQ	0.0147	5.62	1
11031	234678-HxCDF	60851-34-5	0.0333 JB	0.0124	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0804 JBQ	0.00745	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0496 JBQ	0.0124	5.62	1
11031	OCDF	39001-02-0	0.196 JB	0.0315	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SB

LLI Sample # SW 6473902
LLI Group # 1277029
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 10:15

Submitted: 11/17/2011 09:00
Reported: 12/01/2011 13:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5512 SDG#: DX155-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 15:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402B	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277029
Reported: 12/01/11 at 01:15 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11325162402B	Sample number(s): 6473897-6473902								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6473897-6473902								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11325162402B	Sample number(s): 6473897-6473902					BKG: P470165			
Moisture Content by 160.3						6.6	6.9	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277029
Reported: 12/01/11 at 01:15 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6473897	61	74	59	69	76	67
6473898	83	88	66	83	87	83
6473899	71	80	64	75	74	81
6473900	69	82	70	76	83	83
6473901	71	77	67	76	73	73
6473902	71	79	67	78	76	76
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6473897	88	70	73	77	83	88
6473898	112	84	89	95	97	101
6473899	100	74	78	82	80	86
6473900	93	81	82	81	83	84
6473901	95	73	78	79	79	84
6473902	102	75	82	83	81	86
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6473897	82	87	92	61	76
6473898	99	110	121	78	98
6473899	83	93	98	71	86
6473900	82	87	95	70	83
6473901	80	87	97	71	83
6473902	83	93	102	70	87
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1277029 Sample# 6473897-902

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING** | **Primary**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-SS Sleeve			X	X						
SL-007-SA8S-SB-4.0-5.0	11.15.11	0915	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-SS Sleeve			X	X						
SL-005-SA8S-SB-3.5-4.5	11.15.11	1345	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-4.0-5.0	11.16.11	1135	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-SS Sleeve			X	X						
SL-009-SA8S-SB-7.0-8.0	11.16.11	1205	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-4.0-5.0	11.16.11	0930	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-SS Sleeve			X	X						
SL-024-SA8S-SB-7.0-8.0	11.16.11	1015	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/16/2011 / 1630	LLI 11/17/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 4961	

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/18/2011
Group Number: 1277303
SDG: DE288
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA8S-SB-4.0-5.0 Soil	6475866
SL-010-SA8S-SB-8.5-9.5 Soil	6475867
SL-008-SA8S-SB-2.0-3.0 Soil	6475868
SL-011-SA8S-SB-4.0-5.0 Soil	6475869
EB-SA8S-SB-111711 Water	6475870

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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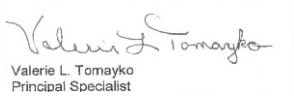
Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		6.75	22.3	1
07914	Boron	7440-42-8	5.00	J	0.402	5.58	1
01650	Calcium	7440-70-2	66,300		5.58	44.6	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	43,200		5.83	44.6	2
01656	Lithium	7439-93-2	34.1		0.69	2.2	1
01657	Magnesium	7439-95-4	9,100		0.491	11.2	1
06958	Manganese	7439-96-5	303		0.0402	0.558	1
10145	Phosphorus	7723-14-0	374		0.391	11.2	1
01662	Potassium	7440-09-7	3,920		12.6	55.8	1
01667	Sodium	7440-23-5	136		6.64	112	1
07968	Strontium	7440-24-6	93.1		0.0279	0.558	1
06969	Tin	7440-31-5	3.58	J	0.357	11.2	1
06970	Titanium	7440-32-6	1,080		0.0792	1.12	1
10146	Zirconium	7440-67-7	7.71		0.513	5.58	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.196	J	0.0826	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4		0.0893	0.446	2
06126	Barium	7440-39-3	101		0.118	0.446	2
06127	Beryllium	7440-41-7	0.968		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.196		0.0491	0.112	2
06131	Chromium	7440-47-3	30.3		0.134	0.446	2
06132	Cobalt	7440-48-4	12.8		0.0223	0.112	2
06133	Copper	7440-50-8	36.9		0.0893	0.446	2
06135	Lead	7439-92-1	16.7		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.595		0.0558	0.112	2
06139	Nickel	7440-02-0	25.0		0.112	0.446	2
06141	Selenium	7782-49-2	0.508		0.0647	0.446	2
06142	Silver	7440-22-4	0.0281	J	0.0158	0.112	2
06145	Thallium	7440-28-0	0.448		0.0335	0.112	2
06148	Vanadium	7440-62-2	63.3		0.0246	0.112	2
06149	Zinc	7440-66-6	83.1		0.625	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.65	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 12:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 21:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:18	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:11	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/26/2011 10:11	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475866
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0104 SDG#: DE288-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:12	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 18:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 18:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		6.70	22.2	1
07914	Boron	7440-42-8	5.58		0.399	5.54	1
01650	Calcium	7440-70-2	70,600		5.54	44.3	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,100	2.89	22.2	1
01656	Lithium	7439-93-2	28.1	0.69	2.2	1
01657	Magnesium	7439-95-4	7,610	0.487	11.1	1
06958	Manganese	7439-96-5	275	0.0399	0.554	1
10145	Phosphorus	7723-14-0	582	0.388	11.1	1
01662	Potassium	7440-09-7	3,190	12.5	55.4	1
01667	Sodium	7440-23-5	148	6.59	111	1
07968	Strontium	7440-24-6	101	0.0277	0.554	1
06969	Tin	7440-31-5	3.72 J	0.354	11.1	1
06970	Titanium	7440-32-6	649	0.0787	1.11	1
10146	Zirconium	7440-67-7	8.05	0.510	5.54	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182 J	0.0820	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	16.0	0.0886	0.443	2
06126	Barium	7440-39-3	111	0.117	0.443	2
06127	Beryllium	7440-41-7	0.964	0.0177	0.111	2
06128	Cadmium	7440-43-9	0.256	0.0487	0.111	2
06131	Chromium	7440-47-3	29.8	0.133	0.443	2
06132	Cobalt	7440-48-4	13.5	0.0222	0.111	2
06133	Copper	7440-50-8	37.9	0.0886	0.443	2
06135	Lead	7439-92-1	20.7	0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.568	0.0554	0.111	2
06139	Nickel	7440-02-0	25.2	0.111	0.443	2
06141	Selenium	7782-49-2	0.234 J	0.0643	0.443	2
06142	Silver	7440-22-4	0.0345 J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.389	0.0332	0.111	2
06148	Vanadium	7440-62-2	58.7	0.0244	0.111	2
06149	Zinc	7440-66-6	114	0.620	3.32	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080 U	0.0080	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 22:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:36	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:25	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475867
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0108 SDG#: DE288-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:30	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 19:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 18:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	10	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.50	21.5	1
07914	Boron	7440-42-8	7.42		0.387	5.38	1
01650	Calcium	7440-70-2	172,000		13.4	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	19,000		2.81	21.5	1
01656	Lithium	7439-93-2	9.8		0.67	2.2	1
01657	Magnesium	7439-95-4	4,330		0.473	10.8	1
06958	Manganese	7439-96-5	325		0.0387	0.538	1
10145	Phosphorus	7723-14-0	328		0.376	10.8	1
01662	Potassium	7440-09-7	2,160		12.1	53.8	1
01667	Sodium	7440-23-5	128		6.40	108	1
07968	Strontium	7440-24-6	212		0.0269	0.538	1
06969	Tin	7440-31-5	2.68	J	0.344	10.8	1
06970	Titanium	7440-32-6	478		0.0763	1.08	1
10146	Zirconium	7440-67-7	5.48		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0788	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.82		0.0852	0.426	2
06126	Barium	7440-39-3	60.0		0.113	0.426	2
06127	Beryllium	7440-41-7	0.490		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.285		0.0468	0.106	2
06131	Chromium	7440-47-3	28.8		0.128	0.426	2
06132	Cobalt	7440-48-4	5.53		0.0213	0.106	2
06133	Copper	7440-50-8	10.1		0.0852	0.426	2
06135	Lead	7439-92-1	5.98		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.282		0.0532	0.106	2
06139	Nickel	7440-02-0	11.7		0.106	0.426	2
06141	Selenium	7782-49-2	0.103	J	0.0617	0.426	2
06142	Silver	7440-22-4	0.0151	U	0.0151	0.106	2
06145	Thallium	7440-28-0	0.156		0.0319	0.106	2
06148	Vanadium	7440-62-2	36.5		0.0234	0.106	2
06149	Zinc	7440-66-6	34.7		0.596	3.19	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:30	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 22:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 05:55	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:32	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475868
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0082 SDG#: DE288-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:31	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 11:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 20:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/02/2011 13:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	J	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.66	22.0	1
07914	Boron	7440-42-8	6.87		0.396	5.51	1
01650	Calcium	7440-70-2	129,000		13.8	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	15,100		2.87	22.0	1
01656	Lithium	7439-93-2	11.4		0.68	2.2	1
01657	Magnesium	7439-95-4	4,450		0.485	11.0	1
06958	Manganese	7439-96-5	302		0.0396	0.551	1
10145	Phosphorus	7723-14-0	321		0.385	11.0	1
01662	Potassium	7440-09-7	2,090		12.4	55.1	1
01667	Sodium	7440-23-5	115		6.55	110	1
07968	Strontium	7440-24-6	160		0.0275	0.551	1
06969	Tin	7440-31-5	2.92	J	0.352	11.0	1
06970	Titanium	7440-32-6	569		0.0782	1.10	1
10146	Zirconium	7440-67-7	5.16	J	0.507	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.01		0.0864	0.432	2
06126	Barium	7440-39-3	72.8		0.114	0.432	2
06127	Beryllium	7440-41-7	0.630		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.222		0.0475	0.108	2
06131	Chromium	7440-47-3	38.9		0.130	0.432	2
06132	Cobalt	7440-48-4	7.99		0.0216	0.108	2
06133	Copper	7440-50-8	10.9		0.0864	0.432	2
06135	Lead	7439-92-1	6.52		0.0110	0.216	2
06138	Molybdenum	7439-98-7	0.283		0.0540	0.108	2
06139	Nickel	7440-02-0	15.7		0.108	0.432	2
06141	Selenium	7782-49-2	0.0717	J	0.0626	0.432	2
06142	Silver	7440-22-4	0.0153	U	0.0153	0.108	2
06145	Thallium	7440-28-0	0.248		0.0324	0.108	2
06148	Vanadium	7440-62-2	53.9		0.0238	0.108	2
06149	Zinc	7440-66-6	45.9		0.605	3.24	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 13:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/28/2011 23:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113230004A	11/30/2011 06:13	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113230004A	11/21/2011 00:00	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:40	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:36	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475869
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0114 SDG#: DE288-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:33	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11322373202A	11/21/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11322373201A	12/01/2011 20:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 18:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11322373202A	11/18/2011 17:20	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11322373201A	11/18/2011 17:20	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	6	1
04678	Benzidine	92-87-5	22	U	22	66	1
04678	Benzoic acid	65-85-0	7	U	7	17	1
04678	Benzyl alcohol	100-51-6	6	U	6	17	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6	1
04678	Carbazole	86-74-8	1	U	1	6	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6	1
04678	4-Chloroaniline	106-47-8	1	U	1	6	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6	1
04678	2-Chlorophenol	95-57-8	1	U	1	6	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6	1
04678	Dibenzofuran	132-64-9	1	U	1	6	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6	1
04678	Hexachlorobenzene	118-74-1	1	U	1	6	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6	1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
04678	Hexachloroethane	67-72-1	1	U	1	6	1
04678	Isophorone	78-59-1	1	U	1	6	1
04678	2-Methylphenol	95-48-7	1	U	1	6	1
04678	4-Methylphenol	106-44-5	2	U	2	6	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	6	1
04678	3-Nitroaniline	99-09-2	1	U	1	6	1
04678	4-Nitroaniline	100-01-6	1	U	1	6	1
04678	Nitrobenzene	98-95-3	1	U	1	6	1
04678	2-Nitrophenol	88-75-5	1	U	1	6	1
04678	4-Nitrophenol	100-02-7	11	U	11	33	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	17	1
04678	Phenol	108-95-2	1	U	1	6	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053	1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.31	J	0.053	1.1	1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053	1
10137	Diethylphthalate	84-66-2	0.066	J	0.053	1.1	1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.12	J	0.053	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053	1
10137	2-Methylnaphthalene	91-57-6	0.012	J	0.011	0.053	1
10137	Naphthalene	91-20-3	0.066		0.032	0.053	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053	1
10137	Di-n-octylphthalate	117-84-0	0.084	J	0.053	1.1	1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.053	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .083 ug/l. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to limited sample volume.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51	1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51	1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51	1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51	1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51	1

*=This limit was used in the evaluation of the final result

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801 U	0.0801	0.200	1
08014	Boron	7440-42-8	0.0042 J	0.0022	0.0500	1
01750	Calcium	7440-70-2	0.0705 U	0.0705	0.200	1
01754	Iron	7439-89-6	0.0141 U	0.0141	0.200	1
01756	Lithium	7439-93-2	0.0076 U	0.0076	0.0200	1
01757	Magnesium	7439-95-4	0.0067 U	0.0067	0.100	1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050	1
10143	Phosphorus	7723-14-0	0.0047 U	0.0047	0.100	1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500	1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00	1
08068	Strontium	7440-24-6	0.00023 J	0.00022	0.0050	1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200	1
07070	Titanium	7440-32-6	0.00046 U	0.00046	0.0100	1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020	1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.6	0.010	0.010	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11327WAA026	12/10/2011 08:14	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11323WAU026	11/30/2011 04:27	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11327WAA026	11/23/2011 18:00	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11323WAU026	11/20/2011 10:15	Elaine F Stoltzfus	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113250021A	11/30/2011 08:05	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113250021A	11/21/2011 21:20	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
08014	Boron	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01754	Iron	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01756	Lithium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
10143	Phosphorus	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
08068	Strontium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07069	Tin	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
07070	Titanium	SW-846 6010B	1	113261848002	11/28/2011 13:40	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	113261848002	11/26/2011 09:10	Eric L Eby	1
06024	Antimony	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113266050003D	11/29/2011 17:35	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113266050003C	11/29/2011 17:35	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	113266050003B	11/29/2011 17:35	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113266050003A	11/29/2011 17:35	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113265713007	11/23/2011 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113261848002	11/23/2011 09:52	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475870
LLI Group # 1277303
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/14/2011 17:12

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE288-05EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113266050003	11/23/2011 09:48	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113265713007	11/22/2011 18:41	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11333196602B	11/30/2011 02:34	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11322281101A	11/18/2011 12:16	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11322281401B	11/18/2011 11:45	Elyse P Brunstetter	1
00200	17b pH by 9040B	SW-846 9040B	1	11322020003A	11/18/2011 22:25	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11323WAU026	Sample number(s): 6475870									
Acenaphthene	0.010	U	0.010	0.050	ug/l	102	106	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	106	110	70-110	3	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	82	66-111	19	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	108	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	102	105	60-127	4	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	110	113	58-151	3	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	64	70	57-131	9	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	100	104	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	104	108	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	115	101	56-148	13	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	103	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	80	85	55-134	7	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	74	66	37-148	11	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	104	107	40-119	3	30
Bis(2-Ethylhexyl)phthalate	0.083	J	0.050	1.0	ug/l	111	113	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	109	95	75-116	14	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	103	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	76	81	53-158	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	99	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	98	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	99	104	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	47	50	36-89	6	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	111	57-145	4	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	100	85	76-111	16	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	103	69-118	4	30
Batch number: 11326SLE026	Sample number(s): 6475866-6475869									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6475866-6475869									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11327WAA026	Sample number(s): 6475870									
Aniline	1	U	1.	5	ug/l	69	68	38-116	3	30
Benzidine	20	U	20.	60	ug/l	50	51	34-117	1	30
Benzoic acid	6	U	6.	15	ug/l	44	46	10-69	6	30
Benzyl alcohol	5	U	5.	15	ug/l	85	83	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	100	75-115	7	30
Carbazole	1	U	1.	5	ug/l	97	103	75-120	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	97	96	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	57	53	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	93	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	92	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	91	62-127	0	30
2-Chloronaphthalene	2	U	2.	5	ug/l	99	100	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	99	95	71-114	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	96	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	92	94	75-117	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	83	83	55-118	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	83	61-111	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	81	82	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	52	54	37-117	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	97	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	103	103	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	97	109	65-126	11	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	85	91	52-131	8	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	100	76-119	3	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	101	99	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	103	68-127	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	94	101	75-119	7	30
Hexachlorobutadiene	1	U	1.	5	ug/l	82	86	57-124	5	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	76	82	36-118	8	30
Hexachloroethane	1	U	1.	5	ug/l	79	80	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	96	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	93	93	58-110	1	30
4-Methylphenol	2	U	2.	5	ug/l	83	81	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	98	99	75-120	2	30
3-Nitroaniline	1	U	1.	5	ug/l	90	92	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	61	59	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	92	95	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	94	97	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	51	51	16-78	1	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	89	86	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	103	67-136	8	30
Pentachlorophenol	3	U	3.	15	ug/l	93	101	53-110	8	30
Phenol	1	U	1.	5	ug/l	55	52	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	88	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	101	100	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	101	76-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 113230004A	Sample number(s): 6475866-6475869									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	244*	74	36-106	107*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	78		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113250021A	Sample number(s): 6475870									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	74	68	35-84	8	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	100	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 113241026002A	Sample number(s): 6475866-6475869									
Antimony	0.0718	U	0.0718	0.194	mg/kg	70		40-227		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	96		83-111		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	97		84-112		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	99		83-111		
Chromium	0.117	U	0.117	0.388	mg/kg	104		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	99		85-114		
Copper	0.0777	U	0.0777	0.388	mg/kg	99		81-110		
Lead	0.0099	U	0.0099	0.194	mg/kg	99		84-112		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	101		83-112		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	99		82-112		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	99		76-110		
Zinc	0.689	J	0.544	2.91	mg/kg	99		82-110		
Batch number: 113241026002B	Sample number(s): 6475866-6475869									
Selenium	0.0563	U	0.0563	0.388	mg/kg	99		79-110		
Batch number: 113241026002C	Sample number(s): 6475866-6475869									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	96		80-110		
Batch number: 113241026002D	Sample number(s): 6475866-6475869									
Barium	0.103	U	0.103	0.388	mg/kg	98		83-110		
Batch number: 113245708004	Sample number(s): 6475866-6475869									
Aluminum	5.93	U	5.93	19.6	mg/kg	79		40-127		
Boron	0.353	U	0.353	4.90	mg/kg	97		83-110		
Calcium	6.46	J	2.45	19.6	mg/kg	100		81-110		
Iron	3.25	J	2.56	19.6	mg/kg	84		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.95 J	0.431	9.80	mg/kg	85		63-116		
Manganese	0.0588 J	0.0353	0.490	mg/kg	97		85-116		
Phosphorus	1.31 J	0.343	9.80	mg/kg	102		80-120		
Potassium	11.1 U	11.1	49.0	mg/kg	96		71-110		
Sodium	5.83 U	5.83	98.0	mg/kg	96		76-110		
Strontium	0.0245 U	0.0245	0.490	mg/kg	98		84-110		
Tin	1.21 J	0.314	9.80	mg/kg	98		86-120		
Titanium	0.0696 U	0.0696	0.980	mg/kg	82		80-120		
Zirconium	0.451 U	0.451	4.90	mg/kg	103		80-120		
Batch number: 113245711003	Sample number(s): 6475866-6475869								
Mercury	0.0068 U	0.0068	0.0972	mg/kg	92		83-119		
Batch number: 113261848002	Sample number(s): 6475870								
Aluminum	0.0801 U	0.0801	0.200	mg/l	105	101	90-112	4	20
Boron	0.0042 J	0.0022	0.0500	mg/l	95	95	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	102	90-110	1	20
Iron	0.0173 J	0.0141	0.200	mg/l	102	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	103	101	90-110	2	20
Magnesium	0.0327 J	0.0067	0.100	mg/l	101	100	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	100	100	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	99	90-110	1	20
Potassium	0.0912 J	0.0874	0.500	mg/l	102	101	85-115	1	20
Sodium	0.0647 U	0.0647	1.00	mg/l	101	100	87-114	1	20
Strontium	0.00029 J	0.00022	0.0050	mg/l	99	100	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	99	99	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	100	90-113	0	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	102	90-110	1	20
Batch number: 113265713007	Sample number(s): 6475870								
Mercury	0.000034 J	0.00002 6	0.00020	mg/l	89	90	80-120	1	20
Batch number: 113266050003A	Sample number(s): 6475870								
Antimony	0.00042 U	0.00042	0.0010	mg/l	113*	104	87-110	9	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	110	86-111	6	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	107	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	112	106	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	113	109	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	106	105	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	108	109	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	104	106	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	111	107	90-113	4	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	109	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	108	89-116	7	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	110	107	89-116	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	109	90-116	5	20
Batch number: 113266050003B	Sample number(s): 6475870								
Selenium	0.00027 U	0.00027	0.0020	mg/l	111	111	85-114	1	20
Batch number: 113266050003C	Sample number(s): 6475870								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	3	20
Batch number: 113266050003D	Sample number(s): 6475870								
Barium	0.00069 U	0.00069	0.0020	mg/l	106	103	88-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11322281101A	Sample number(s): 6475870									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	94	90	85-115	5	20
Batch number: 11322281401B	Sample number(s): 6475870									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	101	90-110	2	20
Batch number: 11322373201A	Sample number(s): 6475866-6475869									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	115		85-115		
Batch number: 11322373202A	Sample number(s): 6475866-6475869									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
Batch number: 11332243201A	Sample number(s): 6475866-6475869									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11333196602B	Sample number(s): 6475870									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	99	100	90-110	1	20
Batch number: 11322020003A	Sample number(s): 6475870									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11332039401B	Sample number(s): 6475866-6475869									
17a pH by 9045C						100		95-105		
Batch number: 11335162401B	Sample number(s): 6475866-6475869									
Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6475866-6475869 UNSPK: P473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6475866-6475869 UNSPK: P473891								
Acenaphthene	94	91	63-105	3	30				
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113230004A	Sample number(s): 6475866-6475869 UNSPK: P470165								
PCB-1016	86	91	29-146	5	50				
PCB-1260	99	109	39-149	9	50				
Batch number: 113241026002A	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Antimony	17*	24*	75-125	21*	20	0.170 J	0.251	38* (1)	20
Arsenic	120 (2)	315 (2)	75-125	27*	20	9.95	19.1	63*	20
Beryllium	99	141*	75-125	18	20	0.842	1.20	35*	20
Cadmium	113	133*	75-125	13	20	0.170	0.166	3 (1)	20
Chromium	133*	213*	75-125	18	20	26.3	47.5	57*	20
Cobalt	116	148*	75-125	20	20	11.1	22.0	66*	20
Copper	123	235*	75-125	22*	20	32.1	66.3	70*	20
Lead	132 (2)	322 (2)	75-125	26*	20	14.6	27.7	62*	20
Nickel	133*	227*	75-125	23*	20	21.7	44.2	68*	20
Silver	107	124	75-125	14	20	0.0245 J	0.0472 J	64* (1)	20
Thallium	114	149*	75-125	15	20	0.390	0.646	50* (1)	20
Vanadium	162 (2)	300 (2)	75-125	17	20	55.1	97.3	55*	20
Zinc	146 (2)	375 (2)	75-125	23*	20	72.3	144	66*	20
Batch number: 113241026002B	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Selenium	81	80	75-125	1	20	0.442	0.300 J	38* (1)	20
Batch number: 113241026002C	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Molybdenum	98	117	75-125	16	20	0.518	0.434	18 (1)	20
Batch number: 113241026002D	Sample number(s): 6475866-6475869 UNSPK: 6475866 BKG: 6475866								
Barium	146 (2)	388 (2)	75-125	21*	20	87.5	171	65*	20
Batch number: 113245708004	Sample number(s): 6475866-6475869 UNSPK: P467994 BKG: P467994								
Aluminum	1838 (2)	1801 (2)	75-125	0	20	17,200	16,900	2	20
Boron	97	97	84-115	3	20	4.24 J	4.57 J	8 (1)	20
Calcium	166 (2)	180 (2)	75-125	2	20	4,310	4,290	0	20
Iron	1639 (2)	569 (2)	75-125	4	20	26,400	24,000	9	20
Lithium	99	98	82-114	2	20	31.1	29.0	7	20
Magnesium	376 (2)	385 (2)	75-125	1	20	7,400	6,950	6	20
Manganese	-1 (2)	137 (2)	75-125	21*	20	289	278	4	20
Phosphorus	115 (2)	111 (2)	75-125	0	20	514	491	5	20
Potassium	158*	155*	75-125	0	20	2,690	2,670	1	20
Sodium	98	99	75-125	3	20	151	198	27* (1)	20
Strontium	99	99	75-115	3	20	16.4	18.6	12	20
Tin	85	86	80-110	4	20	20.4	2.70 J	153* (1)	20
Titanium	430 (2)	424 (2)	75-125	1	20	967	999	3	20
Zirconium	99	99	81-110	3	20	6.90	7.27	5 (1)	20
Batch number: 113245711003	Sample number(s): 6475866-6475869 UNSPK: P477490 BKG: P477490								
Mercury	97	99	65-135	4	20	0.0066 U	0.0070 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11322373201A	Sample number(s): 6475866-6475869				UNSPK: 6475866		BKG: 6475866		
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11322373202A	Sample number(s): 6475866-6475869				UNSPK: 6475866		BKG: 6475866		
11a Anions by 300.0 - Fluoride	83		80-120			1.3	0.80 U	200* (1)	20
Batch number: 11332243201A	Sample number(s): 6475866-6475869				UNSPK: 6475869		BKG: 6475869		
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11332039401B	Sample number(s): 6475866-6475869				BKG: P477491				
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11335162401B	Sample number(s): 6475866-6475869				BKG: P463909				
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11323WAU026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475870	104	98	111
Blank	106	97	102
LCS	111	99	98
LCSD	116	100	102
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475866	88	91	90	81	82	81
6475867	93	96	89	83	88	83
6475868	91	94	86	83	84	84
6475869	85	88	78	78	82	80
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59
MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277303
Reported: 12/14/11 at 05:12 PM

Surrogate Quality Control

6475866	95	87	93
6475867	125	76	94
6475868	100	89	94
6475869	75	79	89
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11327WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6475870	68	44	98	87	90	85
Blank	60	39	91	85	88	89
LCS	75	50	97	87	92	85
LCSD	74	49	101	91	94	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113230004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6475866	102	114
6475867	99	109
6475868	100	110
6475869	101	115
Blank	95	123*
LCS	95	116
LCSD	106	126*
MS	97	104
MSD	98	112
Limits:	53-139	45-120

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 113250021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6475870	112	120
Blank	106	105
LCS	99	111
LCSD	100	104
Limits:	30-150	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1277303 6475866-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-SS Sleeve			X	X						
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-SS Sleeve			X	X						
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)

Date/Time: 11/17/2011 / 1630

Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*)

Date/Time

Airbill No.(s): 8767 9857 4960

Suzette Lehman

11/18/11 0945 0925

AHO 11/18/11

SA8S

13013 1277303 6475866-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	5-1 liter ambers			X	X	X																	
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA8S-SB-111711	11.17.11	1400	WATER	HNO3	1-500 mL poly	X																					

Relinquished by: (*Signature*) — Date/Time: 11/17/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 4960

Laboratory: Lancaster Laboratories, Inc.

Suzette Lehman 11/18/11 0945

0925

AMO 11/18/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/18/2011
Group Number: 1277304
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA8S-SB-4.0-5.0 Soil	6475871
SL-010-SA8S-SB-8.5-9.5 Soil	6475872
SL-008-SA8S-SB-2.0-3.0 Soil	6475873
SL-011-SA8S-SB-4.0-5.0 Soil	6475874
EB-SA8S-SB-111711 Water	6475875

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	1.13	1
11031	12378-PeCDD	40321-76-4	0.0375 JQ	0.0316	5.65	1
11031	123478-HxCDD	39227-28-6	0.0252 JBQ	0.0236	5.65	1
11031	123678-HxCDD	57653-85-7	0.0682 JB	0.0240	5.65	1
11031	123789-HxCDD	19408-74-3	0.0696 JB	0.0225	5.65	1
11031	1234678-HpCDD	35822-46-9	0.664 JBQ	0.0256	5.65	1
11031	OCDD	3268-87-9	3.28 JB	0.0244	11.3	1
11031	2378-TCDF	51207-31-9	0.0471 JQ	0.0374	1.13	1
11031	12378-PeCDF	57117-41-6	0.0336 JBQ	0.0184	5.65	1
11031	23478-PeCDF	57117-31-4	0.101 JB	0.0179	5.65	1
11031	123478-HxCDF	70648-26-9	0.0574 JBQ	0.0170	5.65	1
11031	123678-HxCDF	57117-44-9	0.0414 JBQ	0.0146	5.65	1
11031	123789-HxCDF	72918-21-9	0.0185 U	0.0185	5.65	1
11031	234678-HxCDF	60851-34-5	0.0483 JBQ	0.0151	5.65	1
11031	1234678-HpCDF	67562-39-4	0.158 JBQ	0.0115	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0486 JBQ	0.0182	5.65	1
11031	OCDF	39001-02-0	0.292 JB	0.0307	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-010-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475871
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:05

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0104 SDG#: DX155-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 16:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0412 U	0.0412	1.12	1
11031	12378-PeCDD	40321-76-4	0.0341 U	0.0341	5.60	1
11031	123478-HxCDD	39227-28-6	0.0233 JBQ	0.0226	5.60	1
11031	123678-HxCDD	57653-85-7	0.0225 U	0.0225	5.60	1
11031	123789-HxCDD	19408-74-3	0.0397 JB	0.0226	5.60	1
11031	1234678-HpCDD	35822-46-9	0.352 JB	0.0235	5.60	1
11031	OCDD	3268-87-9	1.20 JB	0.0184	11.2	1
11031	2378-TCDF	51207-31-9	0.0390 JQ	0.0332	1.12	1
11031	12378-PeCDF	57117-41-6	0.0157 U	0.0157	5.60	1
11031	23478-PeCDF	57117-31-4	0.0595 JBQ	0.0159	5.60	1
11031	123478-HxCDF	70648-26-9	0.0559 JB	0.0176	5.60	1
11031	123678-HxCDF	57117-44-9	0.0146 U	0.0146	5.60	1
11031	123789-HxCDF	72918-21-9	0.0443 JBQ	0.0160	5.60	1
11031	234678-HxCDF	60851-34-5	0.0427 JBQ	0.0123	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0906 JBQ	0.0108	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0242 JB	0.0162	5.60	1
11031	OCDF	39001-02-0	0.174 JB	0.0302	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA8S-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SB

LLI Sample # SW 6475872
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/16/2011 15:40

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0108 SDG#: DX155-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 17:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0387 U	0.0387	1.07	1
11031	12378-PeCDD	40321-76-4	0.0330 U	0.0330	5.36	1
11031	123478-HxCDD	39227-28-6	0.0225 U	0.0225	5.36	1
11031	123678-HxCDD	57653-85-7	0.0356 JBQ	0.0228	5.36	1
11031	123789-HxCDD	19408-74-3	0.0233 U	0.0233	5.36	1
11031	1234678-HpCDD	35822-46-9	0.306 JB	0.0215	5.36	1
11031	OCDD	3268-87-9	1.01 JB	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	0.0305 U	0.0305	1.07	1
11031	12378-PeCDF	57117-41-6	0.0295 JB	0.0144	5.36	1
11031	23478-PeCDF	57117-31-4	0.0712 JBQ	0.0141	5.36	1
11031	123478-HxCDF	70648-26-9	0.0205 JBQ	0.0140	5.36	1
11031	123678-HxCDF	57117-44-9	0.0469 JBQ	0.0117	5.36	1
11031	123789-HxCDF	72918-21-9	0.0215 JBQ	0.0136	5.36	1
11031	234678-HxCDF	60851-34-5	0.0267 JBQ	0.0110	5.36	1
11031	1234678-HpCDF	67562-39-4	0.108 JBQ	0.0102	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0293 JB	0.0163	5.36	1
11031	OCDF	39001-02-0	0.0850 JB	0.0302	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8S-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SB

LLI Sample # SW 6475873
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 09:45

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0082 SDG#: DX155-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 18:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0415	U	0.0415	1.11	1
11031	12378-PeCDD	40321-76-4	0.0325	U	0.0325	5.55	1
11031	123478-HxCDD	39227-28-6	0.0398	JB	0.0224	5.55	1
11031	123678-HxCDD	57653-85-7	0.0757	JB	0.0228	5.55	1
11031	123789-HxCDD	19408-74-3	0.0462	JBQ	0.0228	5.55	1
11031	1234678-HpCDD	35822-46-9	0.408	JB	0.0235	5.55	1
11031	OCDD	3268-87-9	1.60	JB	0.0268	11.1	1
11031	2378-TCDF	51207-31-9	0.0609	JQ	0.0362	1.11	1
11031	12378-PeCDF	57117-41-6	0.0854	JBQ	0.0172	5.55	1
11031	23478-PeCDF	57117-31-4	0.0337	JB	0.0167	5.55	1
11031	123478-HxCDF	70648-26-9	0.0367	JBQ	0.0167	5.55	1
11031	123678-HxCDF	57117-44-9	0.0348	JBQ	0.0138	5.55	1
11031	123789-HxCDF	72918-21-9	0.0171	U	0.0171	5.55	1
11031	234678-HxCDF	60851-34-5	0.0432	JBQ	0.0143	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0614	JBQ	0.0102	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0575	JBQ	0.0171	5.55	1
11031	OCDF	39001-02-0	0.178	JB	0.0327	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SB

LLI Sample # SW 6475874
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 10:35

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0114 SDG#: DX155-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 19:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB-SA8S-SB-111711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475875
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB117 SDG#: DX155-17EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.200	U	0.200	2.09	1
10915	12378-PeCDD	40321-76-4	0.347	JQ	0.248	10.5	1
10915	123478-HxCDD	39227-28-6	0.362	JBQ	0.188	10.5	1
10915	123678-HxCDD	57653-85-7	0.199	JBQ	0.186	10.5	1
10915	123789-HxCDD	19408-74-3	0.416	JBQ	0.178	10.5	1
10915	1234678-HpCDD	35822-46-9	2.67	JBQ	0.221	10.5	1
10915	OCDD	3268-87-9	6.54	JBQ	0.226	20.9	1
10915	2378-TCDF	51207-31-9	0.155	U	0.155	2.09	1
10915	12378-PeCDF	57117-41-6	0.181	JBQ	0.115	10.5	1
10915	23478-PeCDF	57117-31-4	0.432	JBQ	0.0966	10.5	1
10915	123478-HxCDF	70648-26-9	0.384	JBQ	0.147	10.5	1
10915	123678-HxCDF	57117-44-9	0.473	JBQ	0.150	10.5	1
10915	123789-HxCDF	72918-21-9	0.276	JQ	0.103	10.5	1
10915	234678-HxCDF	60851-34-5	0.655	JBQ	0.0926	10.5	1
10915	1234678-HpCDF	67562-39-4	2.66	JB	0.133	10.5	1
10915	1234789-HpCDF	55673-89-7	0.168	JBQ	0.123	10.5	1
10915	OCDF	39001-02-0	1.73	JBQ	0.337	20.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA8S-SB-111711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA8S-SB

LLI Sample # WW 6475875
LLI Group # 1277304
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/17/2011 14:00

Submitted: 11/18/2011 09:25
Reported: 12/02/2011 09:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DB117 SDG#: DX155-17EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326001	11/24/2011 01:59	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11326001	11/22/2011 08:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11335162401B	Sample number(s): 6475871-6475874									
Moisture Content by 160.3						99		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326001	Sample number(s): 6475875									
2378-TCDD	0.426	U	0.426	2.00	pg/l	112		67-158		
12378-PeCDD	0.358	U	0.358	10.0	pg/l	109		70-142		
123478-HxCDD	0.486	J	0.307	10.0	pg/l	101		70-164		
123678-HxCDD	0.713	J	0.312	10.0	pg/l	99		76-134		
123789-HxCDD	0.574	J	0.314	10.0	pg/l	104		64-162		
1234678-HpCDD	4.66	J	0.349	10.0	pg/l	101		70-140		
OCDD	7.85	J	0.379	20.0	pg/l	95		78-144		
2378-TCDF	0.234	U	0.234	2.00	pg/l	100		75-158		
12378-PeCDF	0.553	J	0.175	10.0	pg/l	107		80-134		
23478-PeCDF	0.487	J	0.150	10.0	pg/l	99		68-160		
123478-HxCDF	0.618	J	0.213	10.0	pg/l	100		72-134		
123678-HxCDF	0.222	J	0.200	10.0	pg/l	102		84-130		
123789-HxCDF	0.220	U	0.220	10.0	pg/l	102		78-130		
234678-HxCDF	0.306	J	0.190	10.0	pg/l	100		70-156		
1234678-HpCDF	1.94	J	0.159	10.0	pg/l	93		82-122		
1234789-HpCDF	0.617	J	0.191	10.0	pg/l	98		78-138		
OCDF	1.85	J	0.505	20.0	pg/l	99		63-170		
Batch number: 11326002	Sample number(s): 6475871-6475874									
2378-TCDD	0.0443	U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284	U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393	J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367	J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256	J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234	J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377	J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281	U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345	J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494	J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287	J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276	J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277	J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408	J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104	J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229	J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106	J	0.0280	10.0	ng/kg	92		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11335162401B	Sample number(s): 6475871-6475874					BKG: P463909			
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11326001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6475875	68	75	46	46	71	76
Blank	50	56	48	48	51	54
OPR	60	71	65	67	67	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6475875	49	68	64	68	66	67
Blank	48	47	45	50	46	50
OPR	69	71	73	63	64	66
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6475875	66	66	64	78	74
Blank	48	49	47	63	55
OPR	65	68	74	69	71
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6475871	73	80	69	80	77	75
6475872	71	77	54	69	78	68
6475873	67	74	60	73	73	72
6475874	66	70	61	72	71	69
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277304
Reported: 12/02/11 at 09:08 AM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6475871	97	75	83	81	83	84
6475872	90	70	75	82	83	86
6475873	94	72	79	77	81	84
6475874	91	70	75	74	79	79
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6475871	84	90	101	73	86
6475872	84	90	99	70	87
6475873	81	91	98	68	81
6475874	78	85	93	65	76
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1277304 6475871-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-4.0-5.0	11.16.11	1505	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-SS Sleeve			X	X						
SL-010-SA8S-SB-8.5-9.5	11.16.11	1540	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-SS Sleeve			X	X						
SL-008-SA8S-SB-2.0-3.0	11.17.11	0945	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-SS Sleeve			X	X						
SL-011-SA8S-SB-4.0-5.0	11.17.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/17/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	11/18/11 0945 0925
		8767 9857 4960	

AKO 11/18/11

SA8S

13013 1277304 6475871-75

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010A/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Secondary: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	Other Instructions and Notes
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	5-1 liter ambers			X	X	X																	
EB-SA8S-SB-111711	11.17.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA8S-SB-111711	11.17.11	1400	WATER	HNO3	1-500 mL poly	X																					

Relinquished by: (*Signature*) — Date/Time: 11/17/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 4960

Laboratory: Lancaster Laboratories, Inc.

Scott Lehman 11/18/11 0945

0925

AHO 11/18/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/19/2011
Group Number: 1277528
SDG: DE289
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SB-4.0-5.0 Soil	6477490
SL-012-SA8S-SB-4.0-5.0 Soil	6477491

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

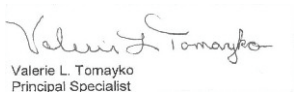
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.49	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		6.63	21.9	1
07914	Boron	7440-42-8	9.10		0.395	5.48	1
01650	Calcium	7440-70-2	122,000		13.7	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	17,700		2.86	21.9	1
01656	Lithium	7439-93-2	17.5		0.68	2.2	1
01657	Magnesium	7439-95-4	5,600		0.483	11.0	1
06958	Manganese	7439-96-5	334		0.0395	0.548	1
10145	Phosphorus	7723-14-0	420		0.384	11.0	1
01662	Potassium	7440-09-7	3,220		12.4	54.8	1
01667	Sodium	7440-23-5	139		6.52	110	1
07968	Strontium	7440-24-6	230		0.0274	0.548	1
06969	Tin	7440-31-5	2.85	J	0.351	11.0	1
06970	Titanium	7440-32-6	871		0.0779	1.10	1
10146	Zirconium	7440-67-7	6.08		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0812	U	0.0812	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.88		0.0877	0.439	2
06126	Barium	7440-39-3	88.9		0.116	0.439	2
06127	Beryllium	7440-41-7	0.660		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.394		0.0483	0.110	2
06131	Chromium	7440-47-3	35.3		0.132	0.439	2
06132	Cobalt	7440-48-4	8.59		0.0219	0.110	2
06133	Copper	7440-50-8	12.7		0.0877	0.439	2
06135	Lead	7439-92-1	7.63		0.0112	0.219	2
06138	Molybdenum	7439-98-7	0.193		0.0548	0.110	2
06139	Nickel	7440-02-0	15.2		0.110	0.439	2
06141	Selenium	7782-49-2	0.166	J	0.0636	0.439	2
06142	Silver	7440-22-4	0.0156	U	0.0156	0.110	2
06145	Thallium	7440-28-0	0.284		0.0329	0.110	2
06148	Vanadium	7440-62-2	59.9		0.0241	0.110	2
06149	Zinc	7440-66-6	56.5		0.614	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.77	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/10/2011 14:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/29/2011 00:06	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113270015A	11/30/2011 09:37	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113270015A	11/23/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:47	Eric L Eby	5
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477490
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8901 SDG#: DE289-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:35	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11333621201A	11/29/2011 13:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11333621202A	12/02/2011 16:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11332243201A	12/01/2011 20:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11333621201A	11/29/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11333621202A	11/29/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8	1
10138	Butylbenzylphthalate	85-68-7	23		6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		6.59	21.8	1
07914	Boron	7440-42-8	7.11		0.392	5.45	1
01650	Calcium	7440-70-2	116,000		5.45	43.6	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	26,700	2.84	21.8	1
01656	Lithium	7439-93-2	18.4	0.68	2.2	1
01657	Magnesium	7439-95-4	5,770	0.479	10.9	1
06958	Manganese	7439-96-5	271	0.0392	0.545	1
10145	Phosphorus	7723-14-0	373	0.381	10.9	1
01662	Potassium	7440-09-7	2,800	12.3	54.5	1
01667	Sodium	7440-23-5	144	6.48	109	1
07968	Strontium	7440-24-6	197	0.0272	0.545	1
06969	Tin	7440-31-5	2.82 J	0.349	10.9	1
06970	Titanium	7440-32-6	711	0.0774	1.09	1
10146	Zirconium	7440-67-7	5.71	0.501	5.45	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106 J	0.0806	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	10.9	0.0872	0.436	2
06126	Barium	7440-39-3	95.8	0.116	0.436	2
06127	Beryllium	7440-41-7	0.573	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.262	0.0479	0.109	2
06131	Chromium	7440-47-3	33.5	0.131	0.436	2
06132	Cobalt	7440-48-4	9.46	0.0218	0.109	2
06133	Copper	7440-50-8	13.4	0.0872	0.436	2
06135	Lead	7439-92-1	7.95	0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.317	0.0545	0.109	2
06139	Nickel	7440-02-0	16.0	0.109	0.436	2
06141	Selenium	7782-49-2	0.236 J	0.0632	0.436	2
06142	Silver	7440-22-4	0.0155 U	0.0155	0.109	2
06145	Thallium	7440-28-0	0.321	0.0327	0.109	2
06148	Vanadium	7440-62-2	57.3	0.0240	0.109	2
06149	Zinc	7440-66-6	54.5	0.610	3.27	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.89	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.72	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11326SLE026	12/11/2011 16:33	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11326SLG026	11/29/2011 00:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11326SLG026	11/23/2011 11:15	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11326SLE026	11/22/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113270015A	11/30/2011 10:33	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113270015A	11/23/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113245708004	11/26/2011 10:55	Eric L Eby	2
01654	Iron	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113245708004	11/26/2011 10:51	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113245708004	11/22/2011 06:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113241026002D	11/29/2011 13:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477491
LLI Group # 1277528
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/14/2011 17:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8902 SDG#: DE289-02*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113241026002C	11/29/2011 13:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113241026002B	11/30/2011 00:37	David K Beck	2
06142	Silver	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113241026002A	11/29/2011 13:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113245711003	11/22/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113245708004	11/21/2011 10:02	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113241026002	11/21/2011 10:37	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113245711003	11/21/2011 11:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11333621201A	11/29/2011 13:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11333621202A	12/02/2011 17:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11332243201A	12/01/2011 20:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11333621201A	11/29/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11333621202A	11/29/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11332039401B	11/28/2011 12:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11332243201A	11/28/2011 11:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11326SLE026	Sample number(s): 6477490-6477491									
Aniline	170 U		170.	500	ug/kg	84		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Carbazole	17	U	17.	170	ug/kg	103		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	92		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	99		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	92		61-109		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	101		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11326SLG026	Sample number(s): 6477490-6477491									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 113270015A	Sample number(s): 6477490-6477491									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70	67	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113241026002A	Sample number(s): 6477490-6477491									
Antimony	0.0718	U	0.0718	0.194	mg/kg	70		40-227		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	96		83-111		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	97		84-112		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	99		83-111		
Chromium	0.117	U	0.117	0.388	mg/kg	104		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	99		85-114		
Copper	0.0777	U	0.0777	0.388	mg/kg	99		81-110		
Lead	0.0099	U	0.0099	0.194	mg/kg	99		84-112		
Nickel	0.0971	U	0.0971	0.388	mg/kg	102		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	101		83-112		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	99		82-112		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	99		76-110		
Zinc	0.689	J	0.544	2.91	mg/kg	99		82-110		
Batch number: 113241026002B	Sample number(s): 6477490-6477491									
Selenium	0.0563	U	0.0563	0.388	mg/kg	99		79-110		
Batch number: 113241026002C	Sample number(s): 6477490-6477491									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	96		80-110		
Batch number: 113241026002D	Sample number(s): 6477490-6477491									
Barium	0.103	U	0.103	0.388	mg/kg	98		83-110		
Batch number: 113245708004	Sample number(s): 6477490-6477491									
Aluminum	5.93	U	5.93	19.6	mg/kg	79		40-127		
Boron	0.353	U	0.353	4.90	mg/kg	97		83-110		
Calcium	6.46	J	2.45	19.6	mg/kg	100		81-110		
Iron	3.25	J	2.56	19.6	mg/kg	84		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	2.95	J	0.431	9.80	mg/kg	85		63-116		
Manganese	0.0588	J	0.0353	0.490	mg/kg	97		85-116		
Phosphorus	1.31	J	0.343	9.80	mg/kg	102		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	96		71-110		
Sodium	5.83	U	5.83	98.0	mg/kg	96		76-110		
Strontium	0.0245	U	0.0245	0.490	mg/kg	98		84-110		
Tin	1.21	J	0.314	9.80	mg/kg	98		86-120		
Titanium	0.0696	U	0.0696	0.980	mg/kg	82		80-120		
Zirconium	0.451	U	0.451	4.90	mg/kg	103		80-120		
Batch number: 113245711003	Sample number(s): 6477490-6477491									
Mercury	0.0068	U	0.0068	0.0972	mg/kg	92		83-119		
Batch number: 11332243201A	Sample number(s): 6477490-6477491									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	103		80-120		
Batch number: 11333621201A	Sample number(s): 6477490-6477491									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
Batch number: 11333621202A	Sample number(s): 6477490-6477491									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11332039401B	Sample number(s): 6477490-6477491									
17a pH by 9045C						100		95-105		
Batch number: 11335162401B	Sample number(s): 6477490-6477491									
Moisture Content by 160.3						99		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11326SLE026	Sample number(s): 6477490-6477491 UNSPK: P473891								
Aniline	55	67	18-116	19	30				
Benzidine	27*	44	35-141	49*	30				
Benzoic acid	36	32	10-173	9	30				
Benzyl alcohol	64*	75	67-115	16	30				
4-Bromophenyl-phenylether	69	77	67-129	12	30				
Carbazole	70	78	64-120	11	30				
4-Chloro-3-methylphenol	67	76	62-122	13	30				
4-Chloroaniline	56	67	13-107	18	30				
bis(2-Chloroethoxy)methane	62*	74*	75-104	19	30				
bis(2-Chloroethyl)ether	60	73	60-116	20	30				
bis(2-Chloroisopropyl)ether	61	74	55-142	18	30				
2-Chloronaphthalene	69	80	50-141	15	30				
2-Chlorophenol	66*	78	73-121	17	30				
4-Chlorophenyl-phenylether	67*	77*	80-109	14	30				
Dibenzofuran	65*	74	71-112	13	30				
1,2-Dichlorobenzene	58*	69	66-108	18	30				
1,3-Dichlorobenzene	54*	67	63-109	21	30				
1,4-Dichlorobenzene	55*	68	58-108	20	30				
3,3'-Dichlorobenzidine	49	59	28-109	19	30				
2,4-Dichlorophenol	68	78	66-123	14	30				
2,4-Dimethylphenol	68	77	68-118	12	30				
3,5-Dimethylphenol	72	83	71-127	13	30				
4,6-Dinitro-2-methylphenol	49	51	11-126	3	30				
2,4-Dinitrophenol	31	29	20-143	7	30				
2,4-Dinitrotoluene	69	77	56-129	11	30				
2,6-Dinitrotoluene	70	76	69-123	9	30				
1,2-Diphenylhydrazine	70*	81	71-129	15	30				
bis(2-Ethylhexyl)phthalate	67	77	63-122	14	30				
Hexachlorobenzene	68*	78	77-114	13	30				
Hexachlorobutadiene	57*	71	62-120	22	30				
Hexachlorocyclopentadiene	57	60	10-153	6	30				
Hexachloroethane	54*	67	57-109	20	30				
Isophorone	64*	76	73-102	18	30				
2-Methylphenol	68*	80	75-111	17	30				
4-Methylphenol	63	76	59-123	19	30				
2-Nitroaniline	71	78	67-125	10	30				
3-Nitroaniline	68	74	59-122	9	30				
4-Nitroaniline	52	57	41-109	9	30				
Nitrobenzene	64	76	57-125	17	30				
2-Nitrophenol	63	73	56-127	16	30				
4-Nitrophenol	59	59	37-129	1	30				
N-Nitroso-di-n-propylamine	57*	71	60-116	21	30				
N-Nitrosodiphenylamine	72	81	71-122	13	30				
Pentachlorophenol	60	52	28-127	14	30				
Phenol	65	79	58-126	19	30				
1,2,4-Trichlorobenzene	61*	72	72-115	16	30				
2,4,5-Trichlorophenol	70	77	58-129	10	30				
2,4,6-Trichlorophenol	69	75	56-134	9	30				
Batch number: 11326SLG026	Sample number(s): 6477490-6477491 UNSPK: P473891								
Acenaphthene	94	91	63-105	3	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	97	88	67-114	9	30				
Anthracene	98	93	73-115	4	30				
Benzo(a)anthracene	96	94	59-128	2	30				
Benzo(a)pyrene	95	93	58-142	2	30				
Benzo(b)fluoranthene	102	101	54-163	0	30				
Benzo(g,h,i)perylene	82	79	33-141	3	30				
Benzo(k)fluoranthene	92	90	57-153	2	30				
Butylbenzylphthalate	105	103	57-173	2	30				
Di-n-butylphthalate	110	107	65-148	2	30				
Chrysene	95	93	67-123	2	30				
Dibenz(a,h)anthracene	88	86	22-133	2	30				
Diethylphthalate	108	105	70-136	3	30				
Dimethylphthalate	105	107	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	92	94	39-167	2	30				
Fluoranthene	105	102	51-149	3	30				
Fluorene	99	95	66-122	4	30				
Indeno(1,2,3-cd)pyrene	87	84	21-143	3	30				
1-Methylnaphthalene	84	80	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	3	30				
Naphthalene	86	86	61-102	1	30				
N-Nitrosodimethylamine	34*	34*	48-113	2	30				
Di-n-octylphthalate	93	93	40-192	1	30				
Phenanthrene	96	92	62-122	4	30				
Pyrene	87	84	51-131	3	30				
Batch number: 113270015A	Sample number(s): 6477490-6477491 UNSPK: 6477490								
PCB-1016	75	77	29-146	3	50				
PCB-1260	83	85	39-149	2	50				
Batch number: 113241026002A	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Antimony	17*	24*	75-125	21*	20	0.170 J	0.251	38* (1)	20
Arsenic	120 (2)	315 (2)	75-125	27*	20	9.95	19.1	63*	20
Beryllium	99	141*	75-125	18	20	0.842	1.20	35*	20
Cadmium	113	133*	75-125	13	20	0.170	0.166	3 (1)	20
Chromium	133*	213*	75-125	18	20	26.3	47.5	57*	20
Cobalt	116	148*	75-125	20	20	11.1	22.0	66*	20
Copper	123	235*	75-125	22*	20	32.1	66.3	70*	20
Lead	132 (2)	322 (2)	75-125	26*	20	14.6	27.7	62*	20
Nickel	133*	227*	75-125	23*	20	21.7	44.2	68*	20
Silver	107	124	75-125	14	20	0.0245 J	0.0472 J	64* (1)	20
Thallium	114	149*	75-125	15	20	0.390	0.646	50* (1)	20
Vanadium	162 (2)	300 (2)	75-125	17	20	55.1	97.3	55*	20
Zinc	146 (2)	375 (2)	75-125	23*	20	72.3	144	66*	20
Batch number: 113241026002B	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Selenium	81	80	75-125	1	20	0.442	0.300 J	38* (1)	20
Batch number: 113241026002C	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Molybdenum	98	117	75-125	16	20	0.518	0.434	18 (1)	20
Batch number: 113241026002D	Sample number(s): 6477490-6477491 UNSPK: P475866 BKG: P475866								
Barium	146 (2)	388 (2)	75-125	21*	20	87.5	171	65*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113245708004	Sample number(s): 6477490-6477491 UNSPK: P467994 BKG: P467994								
Aluminum	1838 (2)	1801 (2)	75-125	0	20	17,200	16,900	2	20
Boron	97	97	84-115	3	20	4.24 J	4.57 J	8 (1)	20
Calcium	166 (2)	180 (2)	75-125	2	20	4,310	4,290	0	20
Iron	1639 (2)	569 (2)	75-125	4	20	26,400	24,000	9	20
Lithium	99	98	82-114	2	20	31.1	29.0	7	20
Magnesium	376 (2)	385 (2)	75-125	1	20	7,400	6,950	6	20
Manganese	-1 (2)	137 (2)	75-125	21*	20	289	278	4	20
Phosphorus	115 (2)	111 (2)	75-125	0	20	514	491	5	20
Potassium	158*	155*	75-125	0	20	2,690	2,670	1	20
Sodium	98	99	75-125	3	20	151	198	27* (1)	20
Strontium	99	99	75-115	3	20	16.4	18.6	12	20
Tin	85	86	80-110	4	20	20.4	2.70 J	153* (1)	20
Titanium	430 (2)	424 (2)	75-125	1	20	967	999	3	20
Zirconium	99	99	81-110	3	20	6.90	7.27	5 (1)	20
Batch number: 113245711003	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
Mercury	97	99	65-135	4	20	0.0066 U	0.0070 U	0 (1)	20
Batch number: 11332243201A	Sample number(s): 6477490-6477491 UNSPK: P475869 BKG: P475869								
3a Cr VI by EPA 7199	99		75-125			1.3	0.43 J	100* (1)	20
Batch number: 11333621201A	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
11a Anions by 300.0 - Fluoride	96		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11333621202A	Sample number(s): 6477490-6477491 UNSPK: 6477490 BKG: 6477490								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11332039401B	Sample number(s): 6477490-6477491 BKG: 6477491								
17a pH by 9045C						8.72	8.72	0	3
Batch number: 11335162401B	Sample number(s): 6477490-6477491 BKG: P463909								
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11326SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6477490	92	95	73	80	83	82
6477491	91	96	91	84	91	83
Blank	96	101	96	86	92	86
LCS	99	103	96	89	90	86
MS	65	67	66	60	63	59

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277528
Reported: 12/14/11 at 05:14 PM

Surrogate Quality Control

MSD	79	80	72	71	74	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11326SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6477490	99	106	92
6477491	98	88	87
Blank	92	87	89
LCS	106	94	98
MS	104	97	90
MSD	104	92	89
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113270015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6477490	95	105
6477491	90	100
Blank	88	103
LCS	91	106
LCSD	93	108
MS	75	100
MSD	83	94
Limits:	53-139	45-120

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1277528 sample# 6477490-91

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	Primary: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-SS Sleeve			X	X						
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-SS Sleeve			X	X						
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	11/18/2011 / 1630			Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
	11/18/11 0950	8767 9857 4982		

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/19/2011
Group Number: 1277529
SDG: DX155
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SB-4.0-5.0 Soil	6477492
SL-012-SA8S-SB-4.0-5.0 Soil	6477493

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0547 JQ	0.0372	1.12	1
11031	12378-PeCDD	40321-76-4	0.0784 JQ	0.0306	5.58	1
11031	123478-HxCDD	39227-28-6	0.0477 JB	0.0185	5.58	1
11031	123678-HxCDD	57653-85-7	0.0609 JBQ	0.0187	5.58	1
11031	123789-HxCDD	19408-74-3	0.0531 JBQ	0.0195	5.58	1
11031	1234678-HpCDD	35822-46-9	0.334 JBQ	0.0189	5.58	1
11031	OCDD	3268-87-9	0.761 JBQ	0.0224	11.2	1
11031	2378-TCDF	51207-31-9	0.0395 JQ	0.0260	1.12	1
11031	12378-PeCDF	57117-41-6	0.106 JB	0.0153	5.58	1
11031	23478-PeCDF	57117-31-4	0.107 JB	0.0148	5.58	1
11031	123478-HxCDF	70648-26-9	0.105 JB	0.0124	5.58	1
11031	123678-HxCDF	57117-44-9	0.0364 JBQ	0.00996	5.58	1
11031	123789-HxCDF	72918-21-9	0.0227 JB	0.0138	5.58	1
11031	234678-HxCDF	60851-34-5	0.0599 JBQ	0.0101	5.58	1
11031	1234678-HpCDF	67562-39-4	0.0761 JB	0.00694	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0133 JBQ	0.0120	5.58	1
11031	OCDF	39001-02-0	0.145 JB	0.0342	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SB

LLI Sample # SW 6477492
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 10:40

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5518 SDG#: DX155-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 19:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0383	U	0.0383	1.10	1
11031	12378-PeCDD	40321-76-4	0.0619	JQ	0.0334	5.52	1
11031	123478-HxCDD	39227-28-6	0.0292	JBQ	0.0207	5.52	1
11031	123678-HxCDD	57653-85-7	0.0205	U	0.0205	5.52	1
11031	123789-HxCDD	19408-74-3	0.0428	JB	0.0195	5.52	1
11031	1234678-HpCDD	35822-46-9	0.225	JBQ	0.0212	5.52	1
11031	OCDD	3268-87-9	0.588	JB	0.0223	11.0	1
11031	2378-TCDF	51207-31-9	0.0343	JQ	0.0301	1.10	1
11031	12378-PeCDF	57117-41-6	0.0756	JB	0.0158	5.52	1
11031	23478-PeCDF	57117-31-4	0.113	JB	0.0157	5.52	1
11031	123478-HxCDF	70648-26-9	0.0423	JBQ	0.0160	5.52	1
11031	123678-HxCDF	57117-44-9	0.0165	JB	0.0128	5.52	1
11031	123789-HxCDF	72918-21-9	0.0401	JB	0.0162	5.52	1
11031	234678-HxCDF	60851-34-5	0.0570	JBQ	0.0119	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0805	JB	0.00853	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0159	JBQ	0.0147	5.52	1
11031	OCDF	39001-02-0	0.161	JB	0.0338	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SB

LLI Sample # SW 6477493
LLI Group # 1277529
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2011 09:05

Submitted: 11/19/2011 09:50
Reported: 12/02/2011 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5519 SDG#: DX155-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11326002	11/30/2011 20:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11326002	11/22/2011 09:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11335162401B	12/01/2011 22:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277529
Reported: 12/02/11 at 09:10 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11335162401B	Sample number(s): 6477492-6477493								
Moisture Content by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11326002	Sample number(s): 6477492-6477493								
2378-TCDD	0.0443 U	0.0443	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0284 U	0.0284	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0393 J	0.0213	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0367 J	0.0212	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0256 J	0.0201	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.234 J	0.0234	5.00	ng/kg	98		70-140		
OCDD	0.377 J	0.0192	10.0	ng/kg	94		78-144		
2378-TCDF	0.0281 U	0.0281	1.00	ng/kg	94		75-158		
12378-PeCDF	0.0345 J	0.0141	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0494 J	0.0130	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0287 J	0.0142	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0276 J	0.0133	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0277 J	0.0148	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0408 J	0.0133	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.104 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0229 J	0.0121	5.00	ng/kg	94		78-138		
OCDF	0.106 J	0.0280	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11335162401B	Sample number(s): 6477492-6477493					BKG: P463909			
Moisture Content by 160.3						7.6	7.4	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1277529
Reported: 12/02/11 at 09:10 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11326002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6477492	76	85	70	84	87	77
6477493	72	72	58	75	74	69
Blank	85	96	83	91	89	97
OPR	70	79	66	77	72	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6477492	107	78	80	93	93	99
6477493	99	71	76	80	84	88
Blank	107	96	101	98	94	99
OPR	92	74	80	83	82	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6477492	95	101	106	74	94
6477493	86	94	102	67	81
Blank	97	105	114	86	102
OPR	82	90	96	67	82
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1277529 sample# 6477492-93

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						Primary										
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C. Samplers Signatures:							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-001-SA8S-SB-4.0-5.0	11.18.11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-SB-4.0-5.0	11.18.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				
Relinquished by: (*Signature*)	Date/Time 11/18/2011 / 1630		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time 11/18/11 0950		Airbill No.(s) 8767 9857 4982														

SA8S

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/02/2011
Group Number: 1279187
SDG: DE291
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP17-SA6-QC-120111 Soil	6487688
SL-023-SA8S-SB-4.0-5.0 Soil	6487689
SL-023-SA8S-SB-9.0-10.0 Soil	6487690
SL-022-SA8S-SB-4.0-5.0 Soil	6487691
SL-022-SA8S-SB-8.0-9.0 Soil	6487692
EB-SA6-SB-120111 Water	6487693

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	18	U	18	180		1
04688	Acenaphthylene	208-96-8	18	U	18	180		1
04688	Aniline	62-53-3	180	U	180	540		1
04688	Anthracene	120-12-7	26	J	18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	18	U	18	180		1
04688	Benzo(a)pyrene	50-32-8	21	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	32	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	83	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	18	U	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	29	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	18	U	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	18	360		1
04688	Fluoranthene	206-44-0	18	U	18	180		1
04688	Fluorene	86-73-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	50	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	18	U	18	180		1
04688	2-Methylnaphthalene	91-57-6	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	18	U	18	180		1
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	36	U	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	18	U	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	140	J	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.096	J	0.081	0.18		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.071	U	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.27	J	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.21	J	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.10	J	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.24	J	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	9.9	U	9.9	9.9		1

The response for a target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	7.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	6.6		0.36	1.8		1
10225	PCB-1260	11096-82-5	13		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	130	J	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	60		4.3	13		10
10199	EFH (C30 - C40)	n.a.	260		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.41	21.2		1
07914	Boron	7440-42-8	4.71	J	0.382	5.30		1
01650	Calcium	7440-70-2	4,030		2.65	21.2		1
01654	Iron	7439-89-6	19,900		2.77	21.2		1
01656	Lithium	7439-93-2	20.3		0.66	2.1		1
01657	Magnesium	7439-95-4	4,380		0.466	10.6		1
06958	Manganese	7439-96-5	277		0.0382	0.530		1
10145	Phosphorus	7723-14-0	424		0.371	10.6		1
01662	Potassium	7440-09-7	2,470		12.0	53.0		1
01667	Sodium	7440-23-5	215		6.31	106		1
07968	Strontium	7440-24-6	24.1		0.0265	0.530		1
06969	Tin	7440-31-5	2.46	J	0.339	10.6		1
06970	Titanium	7440-32-6	975		0.0753	1.06		1
10146	Zirconium	7440-67-7	3.08	J	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0881	J	0.0800	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.74		0.0865	0.432		2
06126	Barium	7440-39-3	104		0.115	0.432		2
06127	Beryllium	7440-41-7	0.678		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.208		0.0476	0.108		2
06131	Chromium	7440-47-3	21.8		0.130	0.432		2
06132	Cobalt	7440-48-4	7.02		0.0216	0.108		2
06133	Copper	7440-50-8	12.1		0.0865	0.432		2
06135	Lead	7439-92-1	11.6		0.0110	0.216		2
06138	Molybdenum	7439-98-7	2.22		0.0541	0.108		2
06139	Nickel	7440-02-0	13.9		0.108	0.432		2
06141	Selenium	7782-49-2	0.733		0.0627	0.432		2
06142	Silver	7440-22-4	0.0398	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.292		0.0324	0.108		2
06148	Vanadium	7440-62-2	42.4		0.0238	0.108		2

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

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E9101 SDG#: DE291-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	126		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.62		0.0377	0.537		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11337SLC026	12/11/2011 23:48	Holly Berry	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	113400037A	12/10/2011 06:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	113390023A	12/12/2011 23:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 19:07	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	113390023A	12/05/2011 18:30	Sally L Appleyard	1

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Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
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E9101 SDG#: DE291-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	113400037A	12/07/2011 07:30	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113360017A	12/05/2011 23:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113420018A	12/09/2011 01:36	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113390013A	12/06/2011 17:16	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113400014A	12/09/2011 12:44	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	113400014A	12/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113390013A	12/05/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113360017A	12/05/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113420018A	12/08/2011 17:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 13:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:42	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487688
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9101 SDG#: DE291-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/09/2011 23:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:08	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11339102201B	12/06/2011 18:38	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11339102201B	12/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,900		6.67	22.1		1
07914	Boron	7440-42-8	11.3		0.397	5.52		1
01650	Calcium	7440-70-2	70,400		13.8	110		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,500		14.4	110		5
01656	Lithium	7439-93-2	34.1		0.68	2.2		1
01657	Magnesium	7439-95-4	9,040		0.485	11.0		1
06958	Manganese	7439-96-5	319		0.0397	0.552		1
10145	Phosphorus	7723-14-0	608		0.386	11.0		1
01662	Potassium	7440-09-7	4,040		12.5	55.2		1
01667	Sodium	7440-23-5	138		6.56	110		1
07968	Strontium	7440-24-6	128		0.0276	0.552		1
06969	Tin	7440-31-5	2.54	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,290		0.0783	1.10		1
10146	Zirconium	7440-67-7	9.49		0.508	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.236		0.0801	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.7		0.0866	0.433		2
06126	Barium	7440-39-3	130		0.287	1.08		5
06127	Beryllium	7440-41-7	1.14		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.326		0.0476	0.108		2
06131	Chromium	7440-47-3	57.9		0.130	0.433		2
06132	Cobalt	7440-48-4	22.6		0.0216	0.108		2
06133	Copper	7440-50-8	59.0		0.0866	0.433		2
06135	Lead	7439-92-1	26.8		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.315		0.0541	0.108		2
06139	Nickel	7440-02-0	44.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.217	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0463	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.760		0.0325	0.108		2
06148	Vanadium	7440-62-2	123		0.0238	0.108		2
06149	Zinc	7440-66-6	186		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011	00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/17/2011	17:12	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011	09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011	19:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011	05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011	07:31	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/09/2011	07:31	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011	13:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011	07:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011	15:11	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011	14:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487689
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9102 SDG#: DE291-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/12/2011 06:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		6.57	21.7		1
07914	Boron	7440-42-8	9.40		0.391	5.43		1
01650	Calcium	7440-70-2	97,900		13.6	109		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,200	2.83	21.7		1
01656	Lithium	7439-93-2	26.7	0.67	2.2		1
01657	Magnesium	7439-95-4	6,940	0.478	10.9		1
06958	Manganese	7439-96-5	247	0.0391	0.543		1
10145	Phosphorus	7723-14-0	437	0.380	10.9		1
01662	Potassium	7440-09-7	3,320	12.3	54.3		1
01667	Sodium	7440-23-5	212	6.46	109		1
07968	Strontium	7440-24-6	172	0.0271	0.543		1
06969	Tin	7440-31-5	2.40 J	0.347	10.9		1
06970	Titanium	7440-32-6	822	0.0771	1.09		1
10146	Zirconium	7440-67-7	6.93	0.499	5.43		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839 J	0.0803	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.97	0.0869	0.434		2
06126	Barium	7440-39-3	98.0	0.115	0.434		2
06127	Beryllium	7440-41-7	0.677	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.293	0.0478	0.109		2
06131	Chromium	7440-47-3	39.3	0.130	0.434		2
06132	Cobalt	7440-48-4	8.87	0.0217	0.109		2
06133	Copper	7440-50-8	15.2	0.0869	0.434		2
06135	Lead	7439-92-1	9.32	0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.275	0.0543	0.109		2
06139	Nickel	7440-02-0	18.7	0.109	0.434		2
06141	Selenium	7782-49-2	0.453	0.0630	0.434		2
06142	Silver	7440-22-4	0.0276 J	0.0154	0.109		2
06145	Thallium	7440-28-0	0.287	0.0326	0.109		2
06148	Vanadium	7440-62-2	65.8	0.0239	0.109		2
06149	Zinc	7440-66-6	61.2	0.608	3.26		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.52	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 00:36	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/17/2011 17:43	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 19:44	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011 07:34	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487690
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9103 SDG#: DE291-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.67	22.1		1
07914	Boron	7440-42-8	9.60		0.397	5.51		1
01650	Calcium	7440-70-2	102,000		13.8	110		5

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Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,000		2.88	22.1		1
01656	Lithium	7439-93-2	31.8		0.68	2.2		1
01657	Magnesium	7439-95-4	8,070		0.485	11.0		1
06958	Manganese	7439-96-5	298		0.0397	0.551		1
10145	Phosphorus	7723-14-0	444		0.386	11.0		1
01662	Potassium	7440-09-7	2,680		12.5	55.1		1
01667	Sodium	7440-23-5	106	J	6.56	110		1
07968	Strontium	7440-24-6	121		0.0276	0.551		1
06969	Tin	7440-31-5	2.48	J	0.353	11.0		1
06970	Titanium	7440-32-6	947		0.0783	1.10		1
10146	Zirconium	7440-67-7	7.88		0.507	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	U	0.0824	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0891	0.445		2
06126	Barium	7440-39-3	88.3		0.118	0.445		2
06127	Beryllium	7440-41-7	0.759		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.255		0.0490	0.111		2
06131	Chromium	7440-47-3	32.3		0.134	0.445		2
06132	Cobalt	7440-48-4	11.6		0.0223	0.111		2
06133	Copper	7440-50-8	22.7		0.0891	0.445		2
06135	Lead	7439-92-1	11.6		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.358		0.0557	0.111		2
06139	Nickel	7440-02-0	20.6		0.111	0.445		2
06141	Selenium	7782-49-2	0.239	J	0.0646	0.445		2
06142	Silver	7440-22-4	0.0190	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.328		0.0334	0.111		2
06148	Vanadium	7440-62-2	61.3		0.0245	0.111		2
06149	Zinc	7440-66-6	73.5		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 14:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/21/2011 17:21	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/09/2011 07:38	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487691
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9104 SDG#: DE291-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 22:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 00:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 09:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.81	22.5		1
07914	Boron	7440-42-8	13.0		0.405	5.63		1
01650	Calcium	7440-70-2	54,300		2.81	22.5		1

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Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	38,800		14.7	113		5
01656	Lithium	7439-93-2	43.9		0.70	2.3		1
01657	Magnesium	7439-95-4	10,900		0.495	11.3		1
06958	Manganese	7439-96-5	303		0.0405	0.563		1
10145	Phosphorus	7723-14-0	500		0.394	11.3		1
01662	Potassium	7440-09-7	4,210		12.7	56.3		1
01667	Sodium	7440-23-5	149		6.69	113		1
07968	Strontium	7440-24-6	101		0.0281	0.563		1
06969	Tin	7440-31-5	2.57	J	0.360	11.3		1
06970	Titanium	7440-32-6	1,290		0.0799	1.13		1
10146	Zirconium	7440-67-7	8.60		0.518	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0833	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.39		0.0900	0.450		2
06126	Barium	7440-39-3	110		0.119	0.450		2
06127	Beryllium	7440-41-7	0.816		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.178		0.0495	0.113		2
06131	Chromium	7440-47-3	32.6		0.135	0.450		2
06132	Cobalt	7440-48-4	14.1		0.0225	0.113		2
06133	Copper	7440-50-8	28.7		0.0900	0.450		2
06135	Lead	7439-92-1	12.6		0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.453		0.0563	0.113		2
06139	Nickel	7440-02-0	22.6		0.113	0.450		2
06141	Selenium	7782-49-2	0.128	J	0.0653	0.450		2
06142	Silver	7440-22-4	0.0160	U	0.0160	0.113		2
06145	Thallium	7440-28-0	0.414		0.0338	0.113		2
06148	Vanadium	7440-62-2	65.4		0.0248	0.113		2
06149	Zinc	7440-66-6	85.2		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11337SLC026	12/12/2011 14:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLD026	12/21/2011 17:54	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLD026	12/06/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11337SLC026	12/05/2011 09:50	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113395708002	12/09/2011 07:42	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113395708002	12/08/2011 14:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113395708002	12/09/2011 07:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026002D	12/08/2011 14:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487692
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9105 SDG#: DE291-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026002C	12/08/2011 14:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026002B	12/12/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026002A	12/08/2011 14:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711003	12/06/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708002	12/05/2011 22:16	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026002	12/06/2011 12:55	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711003	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201B	12/15/2011 22:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11342342201B	12/10/2011 01:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201B	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11342342201B	12/08/2011 14:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11346039401B	12/12/2011 11:20	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.954	J	0.544	1.09		1

The recovery of N-Nitrosodimethylamine was outside of QC limits in the LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	65		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.077	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.075	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.037	J	0.030	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.030	U	0.030	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.1		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0024	U	0.0024	0.012		1
00177	Alpha BHC	319-84-6	0.0035	U	0.0035	0.012		1
00177	Beta BHC	319-85-7	0.0034	U	0.0034	0.012		1
00177	Gamma BHC - Lindane	58-89-9	0.0024	U	0.0024	0.012		1
00177	Chlordane	57-74-9	0.14	U	0.14	0.59		1
00177	p,p-DDD	72-54-8	0.0059	U	0.0059	0.024		1
00177	p,p-DDE	72-55-9	0.0059	U	0.0059	0.024		1
00177	p,p-DDT	50-29-3	0.0059	U	0.0059	0.024		1
00177	Delta BHC	319-86-8	0.0034	U	0.0034	0.012		1
00177	Dieldrin	60-57-1	0.0063	U	0.0063	0.024		1
00177	Endosulfan I	959-98-8	0.0051	U	0.0051	0.012		1
00177	Endosulfan II	33213-65-9	0.018	U	0.018	0.024		1
00177	Endosulfan Sulfate	1031-07-8	0.0069	U	0.0069	0.024		1
00177	Endrin	72-20-8	0.0096	U	0.0096	0.024		1
00177	Endrin Aldehyde	7421-93-4	0.024	U	0.024	0.12		1
00177	Endrin Ketone	53494-70-5	0.0059	U	0.0059	0.024		1
00177	Heptachlor	76-44-8	0.0031	U	0.0031	0.012		1
00177	Heptachlor Epoxide	1024-57-3	0.0027	U	0.0027	0.012		1
00177	Methoxychlor	72-43-5	0.035	U	0.035	0.12		1
00177	Mirex	2385-85-5	0.10	U	0.10	0.30		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Toxaphene	8001-35-2	1.2	U	1.2	3.5		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.12	U	0.12	0.59		1
10227	Aroclor 5442	12642-23-8	0.12	U	0.12	0.59		1
10227	Aroclor 5460	11126-42-4	0.12	U	0.12	0.59		1
10227	PCB-1016	12674-11-2	0.12	U	0.12	0.59		1
10227	PCB-1221	11104-28-2	0.12	U	0.12	0.59		1
10227	PCB-1232	11141-16-5	0.24	U	0.24	0.59		1
10227	PCB-1242	53469-21-9	0.12	U	0.12	0.59		1
10227	PCB-1248	12672-29-6	0.12	U	0.12	0.59		1
10227	PCB-1254	11097-69-1	0.12	U	0.12	0.59		1
10227	PCB-1260	11096-82-5	0.18	U	0.18	0.59		1
10227	PCB-1262	37324-23-5	0.24	U	0.24	0.59		1
10227	PCB-1268	11100-14-4	0.19	U	0.19	0.59		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.076	U	0.076	0.24		1
10319	o-Terphenyl	84-15-1	0.076	U	0.076	0.24		1
10319	p-Terphenyl	92-94-4	0.076	U	0.076	0.24		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.68		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.68		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0043	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1

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Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01757	Magnesium	7439-95-4	0.0067 U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047 U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00045 J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046 J	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00050 J	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00035 J	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.8	0.010	0.010		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/29/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y113402AA	12/06/2011 17:51	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E113391AA	12/05/2011 12:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E113391AA	12/05/2011 12:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y113402AA	12/06/2011 17:51	Chelsea B Eastep	1
10962	21b NDMA by 1625C	EPA 1625C	1	11340WAA026	12/09/2011 12:52	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11340WAC026	12/12/2011 08:45	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11340WAG026	12/16/2011 16:42	Dale R Stoneroad	1
00813	BNA Water Extraction	SW-846 3510C	1	11340WAC026	12/06/2011 18:45	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11340WAG026	12/07/2011 08:40	Catherine R Wiker	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11340WAA026	12/06/2011 14:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11340A20A	12/07/2011 04:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11340A20A	12/07/2011 04:39	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	113400003A	12/13/2011 01:19	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	113370002A	12/05/2011 19:27	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	113370019A	12/06/2011 22:33	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	113400050A	12/09/2011 19:27	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113400049A	12/12/2011 05:27	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113400049A	12/07/2011 13:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	113400050A	12/07/2011 13:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	113370019A	12/05/2011 08:30	Kerrie A Freeburn	1
01013	Formaldehyde Extraction	SW-846 8315A	1	113370002A	12/03/2011 08:40	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	113400003A	12/06/2011 16:20	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113390042A	12/06/2011 20:52	Elizabeth J Marin	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113390042A	12/07/2011 18:37	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	113400056A	12/07/2011 04:14	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	113400019A	12/07/2011 13:55	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113390010A	12/08/2011 05:20	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	113390010A	12/05/2011 17:52	Bronson L Cole	1
10304	Terphenyls water prep	SW-846 3510C	1	113400019A	12/06/2011 22:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
08014	Boron	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487693
LLI Group # 1279187
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9106 SDG#: DE291-06EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01750	Calcium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01754	Iron	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01756	Lithium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07058	Manganese	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01762	Potassium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07069	Tin	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	113411848003	12/09/2011 19:57	John P Hook	1
06024	Antimony	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113416050004D	12/10/2011 07:36	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113416050004C	12/10/2011 07:36	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	113416050004B	12/10/2011 07:36	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113416050004A	12/10/2011 07:36	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113405713003	12/09/2011 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113411848003	12/09/2011 09:22	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113416050004	12/09/2011 09:19	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113405713003	12/08/2011 15:23	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11337373601A	12/03/2011 12:49	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11337373601A	12/03/2011 12:49	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11336281101A	12/02/2011 12:50	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11335495401B	12/02/2011 11:17	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11341117101B	12/07/2011 17:40	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11341117101B	12/07/2011 09:40	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11341020003A	12/07/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E113391AA	Sample number(s): 6487693									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	107	80-123	6	30
Batch number: Y113402AA	Sample number(s): 6487693									
Acetone	6	U	6.	20	ug/l	101	101	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	102	99	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	107	107	80-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	93	91	80-120	2	30
Bromoform	1	U	1.	5	ug/l	94	92	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	77	76	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	97	99	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	111	107	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	115	112	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	100	97	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	94	90	75-123	4	30
Chlorobenzene	0.8	U	0.8	5	ug/l	100	98	80-120	3	30
Chloroethane	1	U	1.	5	ug/l	81	77	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	96	94	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	100	98	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	101	91	60-129	10	30
2-Chlorotoluene	1	U	1.	5	ug/l	108	107	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	105	101	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	85	91	38-136	8	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	100	100	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	99	97	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	99	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	96	95	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	103	102	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	105	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	105	104	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	92	88	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	96	79-120	4	30
1,2-Dichloroethane	1	U	1.	5	ug/l	92	91	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	88	74-123	8	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	101	99	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	97	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	101	98	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	100	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	88	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	96	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	96	94	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	95	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	101	99	79-120	2	30
Freon 113	2	U	2.	10	ug/l	99	92	69-128	7	30
Freon 133a	2	U	2.	5	ug/l	88	93	77-120	6	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	101	99	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	98	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	101	98	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	109	107	80-120	2	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	100	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	107	109	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	117	113	80-120	3	30
Styrene	1	U	1.	5	ug/l	95	91	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	112	113	71-120	0	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	96	94	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	104	102	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	102	102	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	102	102	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	93	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	87	84	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	108	106	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	111	110	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	109	106	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	92	88	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	95	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	97	94	80-120	3	30
Batch number: 11337SLC026	Sample number(s): 6487688-6487692									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	103		75-122		
Aniline	170 U		170.	500	ug/kg	60		20-115		
Anthracene	17	U	17.	170	ug/kg	96		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	35		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	95		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	93		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	90		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	31		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	100		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	91		74-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	50		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	78		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Fluoranthene	17	U	17.	170	ug/kg	103		78-116		
Fluorene	17	U	17.	170	ug/kg	97		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	92		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	86		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	83		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	94		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	81		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11339SLD026	Sample number(s): 6487689-6487692									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	107		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	106		73-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	107		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	109		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	109		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	118		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	111		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	113		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	102		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	102		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	104		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	106		72-119		
Batch number: 11340WAA026	Sample number(s): 6487693									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	77	63*	70-130	20	30
Batch number: 11340WAC026	Sample number(s): 6487693									
Aniline	1	U	1.	5	ug/l	83	77	38-116	7	30
Benzidine	20	U	20.	60	ug/l	79	70	34-117	13	30
Benzoic acid	6	U	6.	15	ug/l	38	34	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	80	74	66-97	7	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	96	75-115	1	30
Carbazole	1	U	1.	5	ug/l	97	97	75-120	0	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	84	85	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	81	76	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	91	93	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	91	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	88	88	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	77	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	86	85	71-114	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	93	93	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	91	90	75-117	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	84	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	83	61-111	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	81	53-119	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	73	65	37-117	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	91	92	77-117	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	90	87	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	91	90	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	102	65-126	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	88	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	94	76-119	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	97	76-118	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	96	96	68-127	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	97	75-119	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	84	86	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	77	74	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	81	79	52-113	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	1	U	1.	5	ug/l	92	94	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	79	73	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	69	65	49-108	6	30
2-Nitroaniline	1	U	1.	5	ug/l	96	96	75-120	0	30
3-Nitroaniline	1	U	1.	5	ug/l	93	91	74-113	2	30
4-Nitroaniline	1	U	1.	5	ug/l	71	66	59-100	7	30
Nitrobenzene	1	U	1.	5	ug/l	90	94	75-109	4	30
2-Nitrophenol	1	U	1.	5	ug/l	93	94	76-118	1	30
4-Nitrophenol	10	U	10.	30	ug/l	35	33	16-78	9	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	85	85	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	98	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	97	97	53-110	0	30
Phenol	1	U	1.	5	ug/l	42	37	21-67	12	30
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	90	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	95	94	79-107	1	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	95	94	76-120	1	30
Batch number: 11340WAG026	Sample number(s): 6487693									
Acenaphthene	0.010	U	0.010	0.050	ug/l	100	98	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	104	99	70-110	5	30
Anthracene	0.010	U	0.010	0.050	ug/l	103	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	97	98	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	99	98	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	108	106	58-151	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	98	95	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	103	103	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	95	95	40-138	0	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	113	108	56-148	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	94	76-116	5	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	100	97	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	111	107	37-148	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	105	100	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	101	101	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	95	75-116	5	30
Fluorene	0.010	U	0.010	0.050	ug/l	112	95	75-114	16	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	99	97	53-158	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	97	93	71-117	4	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	93	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	98	97	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	63	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	99	100	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	99	97	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	95	69-118	4	30
Batch number: 11340A20A	Sample number(s): 6487693									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 113400003A	Sample number(s): 6487693									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	100	80-120	2	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	97	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	110	72-117	10	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	97	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
HMX	0.65	U	0.65	2.0	ug/l	96	98	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	88	92	75-121	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitroglycerin	5.2	U	5.2	15	ug/l	96	100	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	94	74-120	2	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	97	99	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	91	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	95	98	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	89	89	31-148	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	81	88	53-129	8	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 113370002A	Sample number(s): 6487693									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	104	106	69-130	2	30
Batch number: 113370019A	Sample number(s): 6487693									
2,4-D	0.16	U	0.16	0.50	ug/l	96	96	73-157	0	30
Dalapon	0.25	U	0.25	1.3	ug/l	81	84	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	96	65-130	0	30
Dicamba	0.080	U	0.080	0.30	ug/l	112	116	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	88	88	32-91	0	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	104	112	76-170	7	30
MCPA	300 U		300.	1,000	ug/l	96	102	65-128	6	30
MCPP	50	U	50.	200	ug/l	108	108	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	100	104	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	96	100	63-134	4	30
Batch number: 113400037A	Sample number(s): 6487688									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	30		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	96		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	106		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	11		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	102		62-170		
MCPA	76	U	76.	250	ug/kg	102		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	101		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	99		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 113390023A	Sample number(s): 6487688									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	68		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	78		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	71		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	84		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	82		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	69		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	78		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	85		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	76		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	68		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	85		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	74		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	79		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	78		59-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 113400026A	Sample number(s): 6487688-6487692									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	77		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113400049A	Sample number(s): 6487693									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	78	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	82	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	98	92	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 113400050A	Sample number(s): 6487693									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	111	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	100	110	59-146	10	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	73-147	10	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	100	100	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	125	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	115	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	91	93	68-128	2	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	125	130	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	90	90	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	125	125	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	100	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	110	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 113360017A	Sample number(s): 6487688									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100		100.	500	ug/kg	97		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methanol	100	U	100.	500	ug/kg	81		68-129		
Batch number: 113390042A	Sample number(s): 6487693									
Ethanol	200	U	200.	1,000	ug/l	108		78-116		
Isopropanol	200	U	200.	1,000	ug/l	104		75-125		
Methanol	200	U	200.	1,000	ug/l	112		76-122		
Batch number: 113400056A	Sample number(s): 6487693									
Diethylene glycol	10	U	10.	100	mg/l	110		67-126		
Ethylene glycol	10	U	10.	100	mg/l	80		78-136		
Propylene glycol	10	U	10.	100	mg/l	80		65-132		
Batch number: 113420018A	Sample number(s): 6487688									
Diethylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	107		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 113390010A	Sample number(s): 6487693									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	86	76	63-121	12	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	87	77	72-124	11	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	64-123	17	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	87	73	73-124	17	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	88	78	43-107	12	30
Batch number: 113390013A	Sample number(s): 6487688									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		69-109		
Batch number: 113400014A	Sample number(s): 6487688									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	81		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	84		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	88		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	65		49-107		
Batch number: 113400019A	Sample number(s): 6487693									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	96	100	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	96	98	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	96	98	63-110	2	20
Batch number: 113391026002A	Sample number(s): 6487688-6487692									
Antimony	0.0705	U	0.0705	0.190	mg/kg	74		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	102		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	103		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	103		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	115		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	104		81-110		
Lead	0.0126	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	100		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	104		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	101		82-112		

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Client Name: CDM Federal Programs Corp. Group Number: 1279187
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0210 U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.838 J	0.533	2.86	mg/kg	101		82-110		
Batch number: 113391026002B	Sample number(s): 6487688-6487692								
Selenium	0.0675 J	0.0552	0.381	mg/kg	96		79-110		
Batch number: 113391026002C	Sample number(s): 6487688-6487692								
Molybdenum	0.0476 U	0.0476	0.0952	mg/kg	100		80-110		
Batch number: 113391026002D	Sample number(s): 6487688-6487692								
Barium	0.101 U	0.101	0.381	mg/kg	102		83-110		
Batch number: 113395708002	Sample number(s): 6487688-6487692								
Aluminum	6.05 U	6.05	20.0	mg/kg	83		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	106		83-110		
Calcium	4.62 J	2.50	20.0	mg/kg	102		81-110		
Iron	4.80 J	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	4.81 J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0360 U	0.0360	0.500	mg/kg	103		85-116		
Phosphorus	0.983 J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	98		71-110		
Sodium	5.95 U	5.95	100	mg/kg	99		76-110		
Strontium	0.0250 U	0.0250	0.500	mg/kg	103		84-110		
Tin	1.52 J	0.320	10.0	mg/kg	105		86-120		
Titanium	0.0710 U	0.0710	1.00	mg/kg	87		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	96		80-120		
Batch number: 113395711003	Sample number(s): 6487688-6487692								
Mercury	0.0067 U	0.0067	0.0947	mg/kg	92		83-119		
Batch number: 113405713003	Sample number(s): 6487693								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	102	101	80-120	1	20
Batch number: 113411848003	Sample number(s): 6487693								
Aluminum	0.0801 U	0.0801	0.200	mg/l	101	100	90-112	1	20
Boron	0.0022 U	0.0022	0.0500	mg/l	96	96	89-110	0	20
Calcium	0.0705 U	0.0705	0.200	mg/l	104	105	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	117*	105	90-112	11	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	101	101	90-110	0	20
Magnesium	0.0430 J	0.0067	0.100	mg/l	107	107	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	100	101	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	101	90-110	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	106	106	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	102	102	87-114	0	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	100	101	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	99	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	0	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	103	90-110	1	20
Batch number: 113416050004A	Sample number(s): 6487693								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	109	87-110	3	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	110	110	86-111	0	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	108	90-113	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	109	110	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	109	111	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	113	112	87-113	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.00038 U	0.00038	0.0020	mg/l	112	113	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	104	107	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	107	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	109	107	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	105	101	89-116	4	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	110	109	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	110	110	90-116	0	20
Batch number: 113416050004B	Sample number(s): 6487693								
Selenium	0.00027 U	0.00027	0.0020	mg/l	103	105	85-114	2	20
Batch number: 113416050004C	Sample number(s): 6487693								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	108	107	89-115	1	20
Batch number: 113416050004D	Sample number(s): 6487693								
Barium	0.00069 U	0.00069	0.0020	mg/l	108	106	88-113	2	20
Batch number: 11335495401B	Sample number(s): 6487693								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99	100	90-110	1	20
Batch number: 11336281101A	Sample number(s): 6487693								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	107	101	85-115	5	20
Batch number: 11337373601A	Sample number(s): 6487693								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	102	90-110	1	20
Batch number: 11339102201B	Sample number(s): 6487688								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11341117101B	Sample number(s): 6487693								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	102	108	90-110	6	20
Batch number: 11341243202A	Sample number(s): 6487688-6487692								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11342342201B	Sample number(s): 6487688-6487692								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11348621201A	Sample number(s): 6487688-6487691								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11348621201B	Sample number(s): 6487692								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11341020003A	Sample number(s): 6487693								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11346039401B	Sample number(s): 6487688-6487692								
17a pH by 9045C					100		95-105		
Batch number: 11343162401B	Sample number(s): 6487688-6487692								
Moisture Content by 160.3					100		80-120		

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Reported: 12/29/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11337SLC026	Sample number(s): 6487688-6487692 UNSPK: P487630								
Acenaphthene	90	92	75-115	2	30				
Acenaphthylene	102	102	81-110	0	30				
Aniline	0*	0*	18-116	0	30				
Anthracene	95	93	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	85	85	65-122	1	30				
Benzo(a)pyrene	99	100	57-126	1	30				
Benzo(b)fluoranthene	94	91	59-125	3	30				
Benzo(g,h,i)perylene	96	102	59-127	6	30				
Benzo(k)fluoranthene	94	93	56-132	1	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	0*	0*	67-115	0	30				
4-Bromophenyl-phenylether	94	92	67-129	2	30				
Butylbenzylphthalate	98	91	73-134	6	30				
Di-n-butylphthalate	95	91	67-123	4	30				
Carbazole	96	91	64-120	5	30				
4-Chloro-3-methylphenol	91	83	62-122	9	30				
4-Chloroaniline	65	63	13-107	3	30				
bis(2-Chloroethoxy)methane	88	84	75-104	4	30				
bis(2-Chloroethyl)ether	85	85	60-116	0	30				
bis(2-Chloroisopropyl)ether	87	89	55-142	3	30				
2-Chloronaphthalene	86	76	50-141	11	30				
2-Chlorophenol	92	91	73-121	1	30				
4-Chlorophenyl-phenylether	88	88	80-109	0	30				
Chrysene	86	82	62-128	4	30				
Dibenz(a,h)anthracene	93	94	65-125	2	30				
Dibenzofuran	90	89	71-112	1	30				
1,2-Dichlorobenzene	92	86	66-108	7	30				
1,3-Dichlorobenzene	86	88	63-109	2	30				
1,4-Dichlorobenzene	88	87	58-108	1	30				
3,3'-Dichlorobenzidine	60	61	28-109	1	30				
2,4-Dichlorophenol	96	89	66-123	8	30				
Diethylphthalate	91	93	66-118	2	30				
2,4-Dimethylphenol	89	92	68-118	3	30				
3,5-Dimethylphenol	99	95	71-127	5	30				
Dimethylphthalate	89	90	64-118	1	30				
4,6-Dinitro-2-methylphenol	0*	0*	11-126	0	30				
2,4-Dinitrophenol	114	108	20-143	5	30				
2,4-Dinitrotoluene	80	79	56-129	1	30				
2,6-Dinitrotoluene	83	88	69-123	7	30				
1,2-Diphenylhydrazine	92	91	71-129	1	30				
bis(2-Ethylhexyl)phthalate	92	90	63-122	3	30				
Fluoranthene	98	94	73-112	4	30				
Fluorene	93	94	63-121	2	30				
Hexachlorobenzene	90	83	77-114	8	30				
Hexachlorobutadiene	89	96	62-120	7	30				
Hexachlorocyclopentadiene	81	71	10-153	12	30				
Hexachloroethane	87	87	57-109	0	30				
Indeno(1,2,3-cd)pyrene	92	93	61-126	2	30				

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Quality Control Summary

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Reported: 12/29/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	88	84	73-102	4	30				
1-Methylnaphthalene	85	80	64-122	5	30				
2-Methylnaphthalene	88	85	76-114	3	30				
2-Methylphenol	96	89	75-111	7	30				
4-Methylphenol	87	80	59-123	8	30				
Naphthalene	92	88	72-116	4	30				
2-Nitroaniline	86	90	67-125	6	30				
3-Nitroaniline	80	78	59-122	1	30				
4-Nitroaniline	70	78	41-109	12	30				
Nitrobenzene	89	89	57-125	0	30				
2-Nitrophenol	85	85	56-127	0	30				
4-Nitrophenol	0*	0*	37-129	0	30				
N-Nitroso-di-n-propylamine	76	85	60-116	11	30				
N-Nitrosodimethylamine	88	84	47-116	4	30				
N-Nitrosodiphenylamine	96	93	71-122	3	30				
Di-n-octylphthalate	104	106	56-126	2	30				
Pentachlorophenol	155*	154*	28-127	1	30				
Phenanthrene	94	92	65-125	2	30				
Phenol	85	85	58-126	1	30				
Pyrene	94	91	74-126	4	30				
1,2,4-Trichlorobenzene	88	88	72-115	0	30				
2,4,5-Trichlorophenol	99	93	58-129	6	30				
2,4,6-Trichlorophenol	87	92	56-134	6	30				
Batch number: 11339SLD026	Sample number(s): 6487689-6487692 UNSPK: P487630								
Acenaphthene	101	94	63-105	7	30				
Acenaphthylene	110	108	67-114	2	30				
Anthracene	118*	118*	73-115	0	30				
Benzo(a)anthracene	131*	118	59-128	11	30				
Benzo(a)pyrene	126	143*	58-142	12	30				
Benzo(b)fluoranthene	192*	208*	54-163	8	30				
Benzo(g,h,i)perylene	79	79	33-141	0	30				
Benzo(k)fluoranthene	139	142	57-153	2	30				
Butylbenzylphthalate	155	174*	57-173	12	30				
Di-n-butylphthalate	148	167*	65-148	12	30				
Chrysene	154*	152*	67-123	1	30				
Dibenz(a,h)anthracene	65	62	22-133	6	30				
Diethylphthalate	139*	142*	70-136	2	30				
Dimethylphthalate	148*	148*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	170*	729*	39-167	124*	30				
Fluoranthene	135	120	51-149	12	30				
Fluorene	111	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	53	62	21-143	15	30				
1-Methylnaphthalene	109	95	72-123	13	30				
2-Methylnaphthalene	106*	94	64-103	12	30				
Naphthalene	108*	100	61-102	8	30				
N-Nitrosodimethylamine	109	92	48-113	17	30				
Di-n-octylphthalate	151	189	40-192	23	30				
Phenanthrene	113	103	62-122	9	30				
Pyrene	148*	127	51-131	15	30				
Batch number: 113400037A	Sample number(s): 6487688 UNSPK: P487630								
2,4-D	99	85	17-180	15	35				

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Quality Control Summary

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Reported: 12/29/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dalapon	37	36	10-125	3	50				
2,4-DB	81	74	10-201	9	50				
Dicamba	139	102	10-190	30	50				
Dinoseb	24	22	10-46	9	35				
2,4-DP (Dichlorprop)	113	94	33-178	18	50				
MCPA	149	112	10-213	26	50				
MCPP (Mecoprop)	138	71	10-184	64*	50				
2,4,5-T	89	84	10-156	6	35				
2,4,5-TP	93	72	24-141	25	35				
Batch number: 113390023A	Sample number(s): 6487688 UNSPK: P487630								
Aldrin	30	0*	16-126	200*	50				
Alpha BHC	0*	16	10-129	200*	50				
Beta BHC	31	0*	14-147	200*	50				
Gamma BHC - Lindane	32	15	10-140	72*	50				
p,p-DDD	0*	0*	16-163	0	50				
p,p-DDE	54	26	18-161	69*	50				
p,p-DDT	0*	0*	10-176	0	50				
Delta BHC	0*	0*	23-140	0	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	0*	34	28-154	200*	50				
Endosulfan Sulfate	31	0*	21-160	200*	50				
Endrin	40	21	11-149	63*	50				
Endrin Aldehyde	11	30	10-148	38*	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	29	0*	13-126	200*	50				
Heptachlor Epoxide	36	12*	13-157	104*	50				
Methoxychlor	29*	21*	32-147	29	50				
Batch number: 113400026A	Sample number(s): 6487688-6487692 UNSPK: P488950								
PCB-1016	63	74	29-146	17	50				
PCB-1260	72	93	39-149	26	50				
Batch number: 113360017A	Sample number(s): 6487688 UNSPK: P487630								
Ethanol	81	80	48-130	2	20				
Isopropanol	88	88	12-149	1	20				
Methanol	65	62	43-138	6	20				
Batch number: 113390042A	Sample number(s): 6487693 UNSPK: P487124								
Ethanol	112	112	62-145	0	20				
Isopropanol	104	104	73-131	0	20				
Methanol	112	112	52-159	0	20				
Batch number: 113400056A	Sample number(s): 6487693 UNSPK: 6487693								
Diethylene glycol	105	120	83-130	13	20				
Ethylene glycol	90	125	89-125	33*	20				
Propylene glycol	90*	125	91-128	33*	20				
Batch number: 113420018A	Sample number(s): 6487688 UNSPK: P487630								
Diethylene glycol	24*	23*	59-109	1	20				
Ethylene glycol	68	68	63-107	1	20				
Propylene glycol	77	77	63-107	0	20				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113390013A	Sample number(s): 6487688 UNSPK: P487630								
m-Terphenyl	97	94	75-125	3	20				
o-Terphenyl	98	96	75-125	2	20				
p-Terphenyl	96	94	75-125	2	20				
Batch number: 113400014A	Sample number(s): 6487688 UNSPK: P487630								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	147 (2)	-288 (2)	49-123	6	20				
EFH (C30 - C40)	-4209 (2)	-3930 (2)	49-123	1	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 113391026002A	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Antimony	43*	37*	75-125	12	20	0.115 J	0.0712 U	200* (1)	20
Arsenic	277*	165*	75-125	26*	20	4.22	3.91	7	20
Beryllium	204*	120	75-125	39*	20	0.478	0.465	3 (1)	20
Cadmium	188*	127*	75-125	35*	20	0.230	0.195	16 (1)	20
Chromium	263*	155*	75-125	28*	20	17.9	15.8	12	20
Cobalt	191*	128*	75-125	37*	20	6.73	5.67	17	20
Copper	257*	136*	75-125	39*	20	11.9	9.17	26*	20
Lead	329*	78	75-125	46*	20	10.2	6.14	50*	20
Nickel	256*	145*	75-125	35*	20	12.4	11.1	11	20
Silver	175*	124	75-125	35*	20	0.0492 J	0.0352 J	33* (1)	20
Thallium	202*	136*	75-125	29*	20	0.247	0.195	24* (1)	20
Vanadium	348*	191*	75-125	25*	20	37.8	33.3	13	20
Zinc	477 (2)	214 (2)	75-125	26*	20	69.1	58.2	17	20
Batch number: 113391026002B	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Selenium	131*	131*	75-125	1	20	0.257 J	0.521	68* (1)	20
Batch number: 113391026002C	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Molybdenum	179*	125	75-125	35*	20	0.915	0.649	34*	20
Batch number: 113391026002D	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Barium	550 (2)	130 (2)	75-125	31*	20	102	77.7	27*	20
Batch number: 113395708002	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630								
Aluminum	611 (2)	863 (2)	75-125	3	20	13,400	12,600	6	20
Boron	98	99	84-115	1	20	4.59 J	3.87 J	17 (1)	20
Calcium	287 (2)	386 (2)	75-125	7	20	4,640	5,580	18	20
Iron	-2297 (2)	-1472 (2)	75-125	4	20	20,900	19,500	7	20
Lithium	100	98	82-114	1	20	21.3	20.2	5	20
Magnesium	97 (2)	200 (2)	75-125	4	20	4,860	4,940	2	20
Manganese	-31 (2)	6 (2)	75-125	6	20	308	258	18	20
Phosphorus	128*	118	75-125	2	20	368	382	4	20
Potassium	105	101	75-125	1	20	2,470	2,420	2	20
Sodium	98	98	75-125	1	20	138	136	2 (1)	20
Strontium	103	102	75-115	0	20	19.8	21.1	6	20
Tin	92	89	80-110	2	20	2.55 J	2.40 J	6 (1)	20

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Quality Control Summary

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Reported: 12/29/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Titanium	168 (2)	265 (2)	75-125	8	20	1,030		1,020		1	20
Zirconium	100	102	81-110	3	20	2.10	J	4.87		79* (1)	20
Batch number: 113395711003	Sample number(s): 6487688-6487692 UNSPK: P487630 BKG: P487630										
Mercury	106	70	65-135	8	20	0.528		0.478		10	20
Batch number: 11335495401B	Sample number(s): 6487693 UNSPK: P487411 BKG: P487411										
3b Cr VI by EPA 7199	110		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11339102201B	Sample number(s): 6487688 UNSPK: P487640 BKG: P487640										
16a Cyanide by 9012B	102		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11341243202A	Sample number(s): 6487688-6487692 UNSPK: P488950 BKG: P488950										
3a Cr VI by EPA 7199	108		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11342342201B	Sample number(s): 6487688-6487692 UNSPK: P487641 BKG: P487641										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11348621201A	Sample number(s): 6487688-6487691 UNSPK: P488950 BKG: P488950										
11a Anions by 300.0 - Fluoride	98		80-120			0.80	U	1.1		200* (1)	20
Batch number: 11348621201B	Sample number(s): 6487692 UNSPK: 6487692 BKG: 6487692										
11a Anions by 300.0 - Fluoride	91		80-120			2.2		3.5		45* (1)	20
Batch number: 11346039401B	Sample number(s): 6487688-6487692 BKG: 6487692										
17a pH by 9045C						8.35		8.39		0	3
Batch number: 11343162401B	Sample number(s): 6487688-6487692 BKG: P487644										
Moisture Content by 160.3						11.6		11.7		0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E113391AA

	Toluene-d8
6487693	100
Blank	101
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y113402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

6487693	95	99	99	95
Blank	95	98	99	95
LCS	96	101	102	100
LCSD	95	101	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11337SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487688	90	95	66	81	89	82
6487689	93	100	72	87	94	93
6487690	95	101	62	85	93	89
6487691	93	96	91	84	89	84
6487692	94	98	87	85	90	87
Blank	92	98	94	86	88	86
LCS	91	96	93	88	91	85
MS	90	94	86	84	87	79
MSD	90	93	87	83	88	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11339SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487689	99	95	107
6487690	95	100	99
6487691	97	89	101
6487692	96	69	98
Blank	108	104	110
LCS	110	99	103
MS	118	107	113
MSD	109	92	109
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11340WAA026

	N-Nitrosodimethylamine-d6
6487693	168*
Blank	170*
LCS	137
LCSD	170*
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11340WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487693	48	29	91	86	87	84
Blank	47	29	90	86	87	83
LCS	58	36	90	87	91	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

LCSD	51	32	91	89	90	84
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11340WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6487693	98	91	99
Blank	93	94	95
LCS	102	101	98
LCSD	101	90	91
Limits:	64-147	68-132	53-129

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11340A20A

	Trifluorotoluene-F
6487693	97
Blank	96
LCS	116
LCSD	117
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 113370002A

	Butyraldehyde
6487693	98
Blank	101
LCS	104
LCSD	98
Limits:	45-145

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 113370019A

	2,4-Dichlorophenylacetic acid
6487693	97
Blank	89
LCS	100
LCSD	104
Limits:	35-144

Analysis Name: 12a Pesticides by 8081A
Batch number: 113390023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487688	27*	0*
Blank	58	92
LCS	67	88
MS	37*	144*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

MSD	18*	153*
Limits:	50-130	20-120

Analysis Name: 15b Energetics by 8330A
Batch number: 113400003A

	2-Nitro-m-xylene
6487693	90
Blank	90
LCS	94
LCSD	93
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113400026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487688	79	54
6487689	83	55
6487690	89	95
6487691	87	92
6487692	89	96
Blank	71	82
LCS	92	108
LCSD	91	106
MS	75	84
MSD	91	100
Limits:	53-139	53-142

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 113400037A

	2,4-Dichlorophenylacetic acid
6487688	118
Blank	99
LCS	110
MS	138
MSD	124
Limits:	36-156

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 113400049A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487693	90	102
Blank	91	63
LCS	94	82
LCSD	91	75
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

Batch number: 113400050A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6487693	96	104
Blank	97	73
LCS	99	98
LCSD	101	97
Limits:	52-141	40-144

Analysis Name: 18a Alcohols by 8015B
Batch number: 113360017A

	Acetone
6487688	87
Blank	95
LCS	94
MS	87
MSD	92
Limits:	42-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 113390010A

	Chlorobenzene	Orthoterphenyl
6487693	79	92
Blank	80	87
LCS	78	87
LCSD	67	76
Limits:	28-152	52-131

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113390013A

	n-Triacontane-d62
6487688	80
Blank	72
LCS	72
MS	105
MSD	93
Limits:	19-152

Analysis Name: 18b Alcohols by 8015B
Batch number: 113390042A

	Acetone
6487693	96
Blank	98
LCS	98
MS	98
MSD	98
Limits:	54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279187
Reported: 12/29/11 at 01:53 PM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113400014A

	Chlorobenzene	Orthoterphenyl
6487688	84	89
Blank	65	74
LCS	69	81
MS	71	77
MSD	74	84
Limits:	37-125	47-145

Analysis Name: 22b Terphenyls by 8015B
Batch number: 113400019A

	n-Triacontane-d62
6487693	71
Blank	75
LCS	74
LCSD	73
Limits:	17-138

Analysis Name: 19b Glycols by 8015B
Batch number: 113400056A

	Tetramethylene glycol
6487693	98
Blank	105
LCS	107
MS	109
MSD	120
Limits:	29-157

Analysis Name: 19a Glycols by 8015B
Batch number: 113420018A

	Tetramethylene glycol
6487688	89
Blank	98
LCS	98
MS	89
MSD	89
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1279187 Sample#6487688-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	1-SS Sleeve			X	X																	
DUP17-SA8-QC-120111	12.01.11	0825	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X					X	X	X	X	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-SS Sleeve			X	X																	
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	12/01/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 5007, 5029	Suzette Lehman 12/2/11 0915

acct#13013 Ap#1279187 Sample# 6487688-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X				X			X	X		X			
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X																
EB-SA6-SB-120111	12.01.11	1400	WATER	HNO3	1-500 mL poly	X																							
EB-SA6-SB-120111	12.01.11	1400	WATER	NaOH	1-500 mL poly																				X				
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-250 mL glass																	X							
EB-SA6-SB-120111	12.01.11	1400	WATER	HCL	11-40 mL vials												X	X	X									X	
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	4-40 mL vials																X						X		

Relinquished by: (Signature) — Date/Time: 12/01/2011 / 1630 — Received for Laboratory by: (Signature): Suzette Lehman — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8767 9857 5007, 5029

12/2/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/02/2011
Group Number: 1279188
SDG: DX156
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP17-SA6-QC-120111 Soil	6487694
SL-023-SA8S-SB-4.0-5.0 Soil	6487695
SL-023-SA8S-SB-9.0-10.0 Soil	6487696
SL-022-SA8S-SB-4.0-5.0 Soil	6487697
SL-022-SA8S-SB-8.0-9.0 Soil	6487698
EB-SA6-SB-120111 Water	6487699

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JBQ	0.0125	1.05	1
11031	12378-PeCDD	40321-76-4	0.299	JB	0.0263	5.25	1
11031	123478-HxCDD	39227-28-6	0.857	JB	0.0387	5.25	1
11031	123678-HxCDD	57653-85-7	2.87	JB	0.0412	5.25	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0411	5.25	1
11031	1234678-HpCDD	35822-46-9	125	B	0.0685	5.25	1
11031	OCDD	3268-87-9	1,990	B	0.0414	10.5	1
11031	2378-TCDF	51207-31-9	0.159	JBQ	0.0338	1.05	1
11031	12378-PeCDF	57117-41-6	1.44	JB	0.0254	5.25	1
11031	23478-PeCDF	57117-31-4	0.313	JBQ	0.0231	5.25	1
11031	123478-HxCDF	70648-26-9	0.783	JB	0.0298	5.25	1
11031	123678-HxCDF	57117-44-9	0.551	JB	0.0296	5.25	1
11031	123789-HxCDF	72918-21-9	0.249	JB	0.0298	5.25	1
11031	234678-HxCDF	60851-34-5	0.684	JB	0.0292	5.25	1
11031	1234678-HpCDF	67562-39-4	12.5	B	0.0206	5.25	1
11031	1234789-HpCDF	55673-89-7	1.24	JB	0.0237	5.25	1
11031	OCDF	39001-02-0	37.2	B	0.0137	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP17-SA6-QC-120111 Soil
SSFL Area IV Collocated Soil Sampling
DUP17-SA6

LLI Sample # SW 6487694
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 08:25

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5616 SDG#: DX156-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 18:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0118 JB	0.00955	1.12	1
11031	12378-PeCDD	40321-76-4	0.0222 JBQ	0.00875	5.60	1
11031	123478-HxCDD	39227-28-6	0.0201 JB	0.0103	5.60	1
11031	123678-HxCDD	57653-85-7	0.0349 JB	0.0111	5.60	1
11031	123789-HxCDD	19408-74-3	0.0346 JBQ	0.0100	5.60	1
11031	1234678-HpCDD	35822-46-9	0.363 JB	0.0113	5.60	1
11031	OCDD	3268-87-9	1.37 JB	0.0103	11.2	1
11031	2378-TCDF	51207-31-9	0.0156 JBQ	0.0106	1.12	1
11031	12378-PeCDF	57117-41-6	0.0333 JBQ	0.00466	5.60	1
11031	23478-PeCDF	57117-31-4	0.0701 JB	0.00477	5.60	1
11031	123478-HxCDF	70648-26-9	0.0444 JB	0.00625	5.60	1
11031	123678-HxCDF	57117-44-9	0.0306 JB	0.00523	5.60	1
11031	123789-HxCDF	72918-21-9	0.0357 JB	0.00614	5.60	1
11031	234678-HxCDF	60851-34-5	0.0396 JB	0.00557	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0967 JBQ	0.00682	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0504 JBQ	0.0105	5.60	1
11031	OCDF	39001-02-0	0.150 JB	0.0115	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487695
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:15

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5617 SDG#: DX156-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 19:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0266 JBQ	0.0111	1.10	1
11031	12378-PeCDD	40321-76-4	0.0272 JBQ	0.0106	5.48	1
11031	123478-HxCDD	39227-28-6	0.0140 JBQ	0.0104	5.48	1
11031	123678-HxCDD	57653-85-7	0.0308 JBQ	0.0105	5.48	1
11031	123789-HxCDD	19408-74-3	0.0336 JBQ	0.0103	5.48	1
11031	1234678-HpCDD	35822-46-9	0.277 JB	0.00997	5.48	1
11031	OCDD	3268-87-9	0.609 JB	0.00997	11.0	1
11031	2378-TCDF	51207-31-9	0.0227 JB	0.0123	1.10	1
11031	12378-PeCDF	57117-41-6	0.0271 JBQ	0.00609	5.48	1
11031	23478-PeCDF	57117-31-4	0.0637 JBQ	0.00520	5.48	1
11031	123478-HxCDF	70648-26-9	0.0386 JB	0.00653	5.48	1
11031	123678-HxCDF	57117-44-9	0.0327 JBQ	0.00554	5.48	1
11031	123789-HxCDF	72918-21-9	0.0419 JB	0.00598	5.48	1
11031	234678-HxCDF	60851-34-5	0.0394 JB	0.00554	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0998 JB	0.00598	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0371 JBQ	0.00797	5.48	1
11031	OCDF	39001-02-0	0.118 JBQ	0.00886	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SB

LLI Sample # SW 6487696
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 11:55

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5618 SDG#: DX156-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 20:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0172 JBQ	0.00911	1.10	1
11031	12378-PeCDD	40321-76-4	0.0331 JBQ	0.0103	5.51	1
11031	123478-HxCDD	39227-28-6	0.0181 JB	0.00877	5.51	1
11031	123678-HxCDD	57653-85-7	0.0272 JB	0.00911	5.51	1
11031	123789-HxCDD	19408-74-3	0.0329 JBQ	0.00855	5.51	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0107	5.51	1
11031	OCDD	3268-87-9	0.745 JB	0.00979	11.0	1
11031	2378-TCDF	51207-31-9	0.0185 JBQ	0.0124	1.10	1
11031	12378-PeCDF	57117-41-6	0.0343 JBQ	0.00517	5.51	1
11031	23478-PeCDF	57117-31-4	0.0748 JB	0.00506	5.51	1
11031	123478-HxCDF	70648-26-9	0.0318 JB	0.00619	5.51	1
11031	123678-HxCDF	57117-44-9	0.0284 JB	0.00517	5.51	1
11031	123789-HxCDF	72918-21-9	0.0344 JB	0.00641	5.51	1
11031	234678-HxCDF	60851-34-5	0.0370 JB	0.00551	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0888 JBQ	0.00439	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0318 JBQ	0.00664	5.51	1
11031	OCDF	39001-02-0	0.133 JB	0.0105	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487697
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:40

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5619 SDG#: DX156-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 21:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0113 JB	0.0106	1.08	1
11031	12378-PeCDD	40321-76-4	0.0244 JBQ	0.00852	5.41	1
11031	123478-HxCDD	39227-28-6	0.0147 JBQ	0.00966	5.41	1
11031	123678-HxCDD	57653-85-7	0.0316 JB	0.00977	5.41	1
11031	123789-HxCDD	19408-74-3	0.0302 JBQ	0.00955	5.41	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0107	5.41	1
11031	OCDD	3268-87-9	0.519 JB	0.0103	10.8	1
11031	2378-TCDF	51207-31-9	0.0201 JBQ	0.0108	1.08	1
11031	12378-PeCDF	57117-41-6	0.0201 JB	0.00557	5.41	1
11031	23478-PeCDF	57117-31-4	0.0569 JB	0.00523	5.41	1
11031	123478-HxCDF	70648-26-9	0.0391 JBQ	0.00591	5.41	1
11031	123678-HxCDF	57117-44-9	0.0263 JB	0.00500	5.41	1
11031	123789-HxCDF	72918-21-9	0.0255 JBQ	0.00602	5.41	1
11031	234678-HxCDF	60851-34-5	0.0367 JB	0.00557	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0857 JB	0.00511	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0319 JB	0.00761	5.41	1
11031	OCDF	39001-02-0	0.125 JB	0.0101	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA8S-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SB

LLI Sample # SW 6487698
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 15:30

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5620 SDG#: DX156-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11342003	12/16/2011 22:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11342003	12/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162401B	12/09/2011 19:07	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA6-SB-120111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487699
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5621 SDG#: DX156-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.684	U	0.684	2.25	1
10915	12378-PeCDD	40321-76-4	0.576	U	0.576	11.3	1
10915	123478-HxCDD	39227-28-6	0.371	U	0.371	11.3	1
10915	123678-HxCDD	57653-85-7	0.534	JBQ	0.388	11.3	1
10915	123789-HxCDD	19408-74-3	0.378	U	0.378	11.3	1
10915	1234678-HpCDD	35822-46-9	4.07	JB	0.439	11.3	1
10915	OCDD	3268-87-9	5.86	JB	0.382	22.5	1
10915	2378-TCDF	51207-31-9	0.521	U	0.521	2.25	1
10915	12378-PeCDF	57117-41-6	0.251	U	0.251	11.3	1
10915	23478-PeCDF	57117-31-4	0.883	JBQ	0.222	11.3	1
10915	123478-HxCDF	70648-26-9	1.01	JBQ	0.274	11.3	1
10915	123678-HxCDF	57117-44-9	0.475	JB	0.261	11.3	1
10915	123789-HxCDF	72918-21-9	0.251	U	0.251	11.3	1
10915	234678-HxCDF	60851-34-5	0.834	JBQ	0.256	11.3	1
10915	1234678-HpCDF	67562-39-4	2.74	JB	0.223	11.3	1
10915	1234789-HpCDF	55673-89-7	0.318	JBQ	0.259	11.3	1
10915	OCDF	39001-02-0	2.46	JB	0.579	22.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	103	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA6-SB-120111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA6-SB

LLI Sample # WW 6487699
LLI Group # 1279188
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/01/2011 14:00

Submitted: 12/02/2011 09:15
Reported: 12/20/2011 17:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5621 SDG#: DX156-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11339001	12/09/2011 19:12	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11339001	12/05/2011 08:45	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11343162401B	Sample number(s): 6487694-6487698									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11339001	Sample number(s): 6487699									
2378-TCDD	0.554	U	0.554	2.00	pg/l	111		67-158		
12378-PeCDD	0.365	U	0.365	10.0	pg/l	109		70-142		
123478-HxCDD	0.276	U	0.276	10.0	pg/l	107		70-164		
123678-HxCDD	0.498	J	0.276	10.0	pg/l	105		76-134		
123789-HxCDD	0.726	J	0.282	10.0	pg/l	112		64-162		
1234678-HpCDD	3.79	J	0.252	10.0	pg/l	109		70-140		
OCDD	6.63	J	0.306	20.0	pg/l	105		78-144		
2378-TCDF	0.424	U	0.424	2.00	pg/l	103		75-158		
12378-PeCDF	0.230	J	0.174	10.0	pg/l	112		80-134		
23478-PeCDF	0.598	J	0.147	10.0	pg/l	106		68-160		
123478-HxCDF	0.975	J	0.216	10.0	pg/l	109		72-134		
123678-HxCDF	0.664	J	0.208	10.0	pg/l	108		84-130		
123789-HxCDF	0.327	J	0.190	10.0	pg/l	109		78-130		
234678-HxCDF	1.06	J	0.196	10.0	pg/l	106		70-156		
1234678-HpCDF	3.73	J	0.155	10.0	pg/l	101		82-122		
1234789-HpCDF	0.384	J	0.169	10.0	pg/l	106		78-138		
OCDF	2.25	J	0.371	20.0	pg/l	104		63-170		
Batch number: 11342003	Sample number(s): 6487694-6487698									
2378-TCDD	0.0313	J	0.0144	1.00	ng/kg	101		67-158		
12378-PeCDD	0.0899	J	0.0143	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0576	J	0.0114	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0571	J	0.0118	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0703	J	0.0113	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.248	J	0.0122	5.00	ng/kg	100		70-140		
OCDD	0.403	J	0.0113	10.0	ng/kg	101		78-144		
2378-TCDF	0.0290	J	0.0127	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0765	J	0.00820	5.00	ng/kg	100		80-134		
23478-PeCDF	0.118	J	0.00780	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0750	J	0.0105	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0647	J	0.00910	5.00	ng/kg	104		84-130		
123789-HxCDF	0.111	J	0.0107	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0820	J	0.00970	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.117	J	0.00660	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0904	J	0.0102	5.00	ng/kg	101		78-138		
OCDF	0.207	J	0.0135	10.0	ng/kg	102		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11343162401B	Sample number(s): 6487694-6487698					BKG: P487644			
Moisture Content by 160.3						11.6	11.7	0	20
Batch number: 11342003	Sample number(s): 6487694-6487698					UNSPK: P487669			
2378-TCDD	95	99	67-158	1	25				
12378-PeCDD	94	96	70-142	2	25				
123478-HxCDD	93	97	70-164	0	25				
123678-HxCDD	90	93	76-134	0	25				
123789-HxCDD	101	101	64-162	4	25				
1234678-HpCDD	61*	75	70-140	6	25				
OCDD	-135 (2)	-33 (2)	78-144	17	25				
2378-TCDF	93	96	75-158	1	25				
12378-PeCDF	96	97	80-134	3	25				
23478-PeCDF	93	90	68-160	6	25				
123478-HxCDF	98	100	72-134	1	25				
123678-HxCDF	99	100	84-130	3	25				
123789-HxCDF	101	101	78-130	3	25				
234678-HxCDF	97	97	70-156	4	25				
1234678-HpCDF	92	93	82-122	2	25				
1234789-HpCDF	100	95	78-138	8	25				
OCDF	99	100	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11339001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6487699	78	87	79	81	85	103
Blank	73	92	73	75	80	97
OPR	75	87	76	79	87	101
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6487699	86	87	87	77	76	77
Blank	82	88	86	79	70	74
OPR	90	97	104	79	79	78
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279188
Reported: 12/20/11 at 05:30 PM

Surrogate Quality Control

6487699	77	80	82	87	85	
Blank	72	79	84	83	87	
OPR	77	88	96	89	89	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11342003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6487694	83	93	76	77	76	79
6487695	64	72	65	75	69	69
6487696	63	76	57	66	65	63
6487697	66	72	67	78	71	66
6487698	65	71	63	74	65	64
Blank	80	82	74	83	78	76
MS	85	83	73	73	72	69
MSD	89	94	81	83	81	80
OPR	68	68	65	74	69	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6487694	79	75	70	98	80	78
6487695	89	63	54	85	80	79
6487696	74	60	52	88	72	70
6487697	84	60	53	81	79	82
6487698	85	61	53	84	76	76
Blank	106	74	72	94	89	92
MS	65	54	41	97	80	82
MSD	75	69	49	111	87	90
OPR	97	60	55	80	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6487694	77	79	72	79	91
6487695	82	77	68	54	76
6487696	72	76	63	50	72
6487697	82	77	65	54	74
6487698	77	80	65	53	71
Blank	90	99	94	70	84
MS	79	65	45	75	82
MSD	89	78	53	83	90
OPR	79	86	75	59	74
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1279188 Sample#6487694-99

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY ANALYTES										SECONDARY ANALYTES									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	1-SS Sleeve			X	X																
DUP17-SA6-QC-120111	12.01.11	0825	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X					X	X	X	X	
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-SS Sleeve			X	X																
SL-023-SA8S-SB-4.0-5.0	12.01.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-SS Sleeve			X	X																
SL-023-SA8S-SB-9.0-10.0	12.01.11	1155	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-SS Sleeve			X	X																
SL-022-SA8S-SB-4.0-5.0	12.01.11	1440	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-SS Sleeve			X	X																
SL-022-SA8S-SB-8.0-9.0	12.01.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X												
Relinquished by: (Signature)	Date/Time 12/01/2011 / 1630		Received for Laboratory by: (Signature)																						Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8767 9857 5007, 5029																						12/2/11 0915

Suzette Lehman

acct# 13013 Cap# 1279188 Sample# 6487694-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X				X			X	X		X			
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X																
EB-SA6-SB-120111	12.01.11	1400	WATER	HNO3	1-500 mL poly	X																							
EB-SA6-SB-120111	12.01.11	1400	WATER	NaOH	1-500 mL poly																				X				
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	1-250 mL glass																	X							
EB-SA6-SB-120111	12.01.11	1400	WATER	HCL	11-40 mL vials												X	X	X									X	
EB-SA6-SB-120111	12.01.11	1400	WATER	NONE	4-40 mL vials																X						X		

Relinquished by: (*Signature*) — Date/Time: 12/01/2011 / 1630 — Received for Laboratory by: (*Signature*): Suzette Lehman

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8767 9857 5007, 5029

Laboratory: Lancaster Laboratories, Inc.

12/2/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/03/2011
Group Number: 1279335
SDG: DE292
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-019-SA8S-SB-4.0-5.0 Soil	6488950
SL-019-SA8S-SB-4.0-5.0MS Soil	6488951
SL-019-SA8S-SB-4.0-5.0MSD Soil	6488952
SL-019-SA8S-SB-4.0-5.0DUP Soil	6488953
SL-019-SA8S-SB-4.0-5.0RL MS Soil	6488954
SL-019-SA8S-SB-4.0-5.0RL LCS Soil	6488955
SL-020-SA8S-SB-4.0-5.0 Soil	6488956
SL-020-SA8S-SB-9.0-10.0 Soil	6488957
SL-021-SA8S-SB-4.0-5.0 Soil	6488958
SL-021-SA8S-SB-9.0-10.0 Soil	6488959
DUP02-SA8S-QC-120211 Soil	6488960

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.37	21.1	1
07914	Boron	7440-42-8	0.379	U	0.379	5.26	1
01650	Calcium	7440-70-2	3,680		2.63	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	22,700		2.75	21.1	1
01656	Lithium	7439-93-2	23.1		0.65	2.1	1
01657	Magnesium	7439-95-4	4,390		0.463	10.5	1
06958	Manganese	7439-96-5	321		0.0379	0.526	1
10145	Phosphorus	7723-14-0	472		0.368	10.5	1
01662	Potassium	7440-09-7	2,470		11.9	52.6	1
01667	Sodium	7440-23-5	63.9	J	6.26	105	1
07968	Strontium	7440-24-6	7.27		0.0263	0.526	1
06969	Tin	7440-31-5	3.57	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,190		0.0747	1.05	1
10146	Zirconium	7440-67-7	2.17	J	0.484	5.26	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.63		0.0834	0.417	2
06126	Barium	7440-39-3	87.0		0.110	0.417	2
06127	Beryllium	7440-41-7	0.599		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0592	J	0.0459	0.104	2
06131	Chromium	7440-47-3	13.9		0.125	0.417	2
06132	Cobalt	7440-48-4	7.70		0.0208	0.104	2
06133	Copper	7440-50-8	7.40		0.0834	0.417	2
06135	Lead	7439-92-1	5.09		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.331		0.0521	0.104	2
06139	Nickel	7440-02-0	8.55		0.104	0.417	2
06141	Selenium	7782-49-2	0.107	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0148	U	0.0148	0.104	2
06145	Thallium	7440-28-0	0.288		0.0313	0.104	2
06148	Vanadium	7440-62-2	31.6		0.0229	0.104	2
06149	Zinc	7440-66-6	67.2		0.584	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0985	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 09:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 19:51	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 04:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 10:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488950
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 10:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 12:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		18	180	1
04688	Acenaphthylene	208-96-8	1,700		18	180	1
04688	Aniline	62-53-3	1,100		180	530	1
04688	Anthracene	120-12-7	1,600		18	180	1
04688	Benzidine	92-87-5	1,300	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,500		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	1,500		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,600		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180	1
04688	Carbazole	86-74-8	1,600		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		35	180	1
04688	4-Chloroaniline	106-47-8	940		70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,200		18	180	1
04688	2-Chlorophenol	95-57-8	1,500		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	180	1
04688	Chrysene	218-01-9	1,500		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,500		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	870		110	350	1
04688	2,4-Dichlorophenol	120-83-2	1,600		18	180	1
04688	Diethylphthalate	84-66-2	1,600		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,500		35	180	1
04688	3,5-Dimethylphenol	108-68-9	1,600		35	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	870		180	530	1
04688	2,4-Dinitrophenol	51-28-5	950	J	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,600		35	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,500		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		18	350	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,600		18	180	1
04688	Hexachlorobenzene	118-74-1	1,600		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,400		70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		180	530	1
04688	Hexachloroethane	67-72-1	1,400		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,400	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,500	18	180	1
04688	2-Methylphenol	95-48-7	1,600	35	180	1
04688	4-Methylphenol	106-44-5	1,500	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,500	18	180	1
04688	2-Nitroaniline	88-74-4	1,600	18	180	1
04688	3-Nitroaniline	99-09-2	1,500	35	180	1
04688	4-Nitroaniline	100-01-6	1,100	70	180	1
04688	Nitrobenzene	98-95-3	1,500	18	180	1
04688	2-Nitrophenol	88-75-5	1,500	18	180	1
04688	4-Nitrophenol	100-02-7	1,300	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,400	180	530	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,600	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,600	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34	0.70	1.7	1
10138	Acenaphthylene	208-96-8	35	0.35	1.7	1
10138	Anthracene	120-12-7	37	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	36	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	37	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	34	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	38	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	43	6.3	19	1
10138	Chrysene	218-01-9	36	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	37	0.70	1.7	1
10138	Diethylphthalate	84-66-2	40	6.3	19	1
10138	Dimethylphthalate	131-11-3	37	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.3	19	1
10138	Fluoranthene	206-44-0	38	0.70	1.7	1
10138	Fluorene	86-73-7	37	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	37	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	31	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7	1
10138	Naphthalene	91-20-3	32		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	39		6.3	19	1
10138	Phenanthrene	85-01-8	35		0.70	1.7	1
10138	Pyrene	129-00-0	36		0.70	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	11		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	13		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.18	20.4	1
07914	Boron	7440-42-8	200		0.368	5.11	1
01650	Calcium	7440-70-2	4,170		2.55	20.4	1
01654	Iron	7439-89-6	22,200		2.67	20.4	1
01656	Lithium	7439-93-2	123		0.63	2.0	1
01657	Magnesium	7439-95-4	4,540		0.450	10.2	1
06958	Manganese	7439-96-5	359		0.0368	0.511	1
10145	Phosphorus	7723-14-0	561		0.358	10.2	1
01662	Potassium	7440-09-7	3,500		11.5	51.1	1
01667	Sodium	7440-23-5	1,060		6.08	102	1
07968	Strontium	7440-24-6	104		0.0255	0.511	1
06969	Tin	7440-31-5	390		0.327	10.2	1
06970	Titanium	7440-32-6	1,380		0.0726	1.02	1
10146	Zirconium	7440-67-7	104		0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.413		0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.47		0.0810	0.405	2
06126	Barium	7440-39-3	92.4		0.107	0.405	2
06127	Beryllium	7440-41-7	1.38		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.08		0.0445	0.101	2
06131	Chromium	7440-47-3	24.5		0.121	0.405	2
06132	Cobalt	7440-48-4	62.5		0.0202	0.101	2
06133	Copper	7440-50-8	18.1		0.0810	0.405	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.42	0.0103	0.202	2
06138	Molybdenum	7439-98-7	10.5	0.0506	0.101	2
06139	Nickel	7440-02-0	18.7	0.101	0.405	2
06141	Selenium	7782-49-2	2.14	0.0587	0.405	2
06142	Silver	7440-22-4	10.9	0.0144	0.101	2
06145	Thallium	7440-28-0	0.664	0.0304	0.101	2
06148	Vanadium	7440-62-2	42.8	0.0223	0.101	2
06149	Zinc	7440-66-6	75.0	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2	0.83	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	585	9.5	31.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.4	1.1	5.3	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 10:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 18:48	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 20:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488951
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 13:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 10:34	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		18	180	1
04688	Acenaphthylene	208-96-8	1,800		18	180	1
04688	Aniline	62-53-3	980		180	530	1
04688	Anthracene	120-12-7	1,700		18	180	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,600		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	1,600		180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,600		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180	1
04688	Carbazole	86-74-8	1,600		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		35	180	1
04688	4-Chloroaniline	106-47-8	850		70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180	1
04688	2-Chlorophenol	95-57-8	1,600		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	180	1
04688	Chrysene	218-01-9	1,600		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180	1
04688	Dibenzofuran	132-64-9	1,600		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	820		110	350	1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180	1
04688	Diethylphthalate	84-66-2	1,700		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,600		35	180	1
04688	3,5-Dimethylphenol	108-68-9	1,700		35	180	1
04688	Dimethylphthalate	131-11-3	1,600		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	670		180	530	1
04688	2,4-Dinitrophenol	51-28-5	720	J	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		18	350	1
04688	Fluoranthene	206-44-0	1,700		18	180	1
04688	Fluorene	86-73-7	1,700		18	180	1
04688	Hexachlorobenzene	118-74-1	1,600		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600		70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		180	530	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180	1
04688	Isophorone	78-59-1	1,500		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180	1
04688	2-Methylphenol	95-48-7	1,600	35	180	1
04688	4-Methylphenol	106-44-5	1,500	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	18	180	1
04688	2-Nitroaniline	88-74-4	1,700	18	180	1
04688	3-Nitroaniline	99-09-2	1,600	35	180	1
04688	4-Nitroaniline	100-01-6	1,100	70	180	1
04688	Nitrobenzene	98-95-3	1,600	18	180	1
04688	2-Nitrophenol	88-75-5	1,600	18	180	1
04688	4-Nitrophenol	100-02-7	1,400	180	530	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,800	18	180	1
04688	Pentachlorophenol	87-86-5	1,300	180	530	1
04688	Phenanthrene	85-01-8	1,600	18	180	1
04688	Phenol	108-95-2	1,500	18	180	1
04688	Pyrene	129-00-0	1,600	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	35	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.70	1.7	1
10138	Acenaphthylene	208-96-8	35	0.35	1.7	1
10138	Anthracene	120-12-7	35	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	34	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	35	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	34	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	32	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	33	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	40	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	42	6.3	19	1
10138	Chrysene	218-01-9	35	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.70	1.7	1
10138	Diethylphthalate	84-66-2	38	6.3	19	1
10138	Dimethylphthalate	131-11-3	37	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	6.3	19	1
10138	Fluoranthene	206-44-0	37	0.70	1.7	1
10138	Fluorene	86-73-7	35	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	31	0.70	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7	1
10138	Naphthalene	91-20-3	31		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	38		6.3	19	1
10138	Phenanthrene	85-01-8	34		0.70	1.7	1
10138	Pyrene	129-00-0	34		0.70	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	13		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	16		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		6.12	20.2	1
07914	Boron	7440-42-8	198		0.364	5.06	1
01650	Calcium	7440-70-2	4,260		2.53	20.2	1
01654	Iron	7439-89-6	23,800		2.64	20.2	1
01656	Lithium	7439-93-2	122		0.63	2.0	1
01657	Magnesium	7439-95-4	4,710		0.445	10.1	1
06958	Manganese	7439-96-5	343		0.0364	0.506	1
10145	Phosphorus	7723-14-0	580		0.354	10.1	1
01662	Potassium	7440-09-7	3,540		11.4	50.6	1
01667	Sodium	7440-23-5	1,040		6.02	101	1
07968	Strontium	7440-24-6	104		0.0253	0.506	1
06969	Tin	7440-31-5	387		0.324	10.1	1
06970	Titanium	7440-32-6	1,430		0.0719	1.01	1
10146	Zirconium	7440-67-7	103		0.466	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.389		0.0749	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.39		0.0810	0.405	2
06126	Barium	7440-39-3	98.0		0.107	0.405	2
06127	Beryllium	7440-41-7	1.44		0.0162	0.101	2
06128	Cadmium	7440-43-9	1.14		0.0445	0.101	2
06131	Chromium	7440-47-3	25.7		0.121	0.405	2
06132	Cobalt	7440-48-4	64.3		0.0202	0.101	2
06133	Copper	7440-50-8	19.1		0.0810	0.405	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.44	0.0103	0.202	2
06138	Molybdenum	7439-98-7	10.7	0.0506	0.101	2
06139	Nickel	7440-02-0	19.4	0.101	0.405	2
06141	Selenium	7782-49-2	2.49	0.0587	0.405	2
06142	Silver	7440-22-4	11.0	0.0144	0.101	2
06145	Thallium	7440-28-0	0.673	0.0304	0.101	2
06148	Vanadium	7440-62-2	44.6	0.0223	0.101	2
06149	Zinc	7440-66-6	79.7	0.567	3.04	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.174	0.0072	0.102	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 10:45	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 19:20	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488952
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.24	20.6	1
07914	Boron	7440-42-8	0.372	U	0.372	5.16	1
01650	Calcium	7440-70-2	5,060		2.58	20.6	1
01654	Iron	7439-89-6	23,000		2.69	20.6	1
01656	Lithium	7439-93-2	23.0		0.64	2.1	1
01657	Magnesium	7439-95-4	4,400		0.454	10.3	1
06958	Manganese	7439-96-5	348		0.0372	0.516	1
10145	Phosphorus	7723-14-0	475		0.361	10.3	1
01662	Potassium	7440-09-7	2,280		11.7	51.6	1
01667	Sodium	7440-23-5	64.4	J	6.14	103	1
07968	Strontium	7440-24-6	8.19		0.0258	0.516	1
06969	Tin	7440-31-5	3.42	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,150		0.0733	1.03	1
10146	Zirconium	7440-67-7	2.77	J	0.475	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0764	U	0.0764	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.39		0.0826	0.413	2
06126	Barium	7440-39-3	91.4		0.109	0.413	2
06127	Beryllium	7440-41-7	0.701		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0650	J	0.0454	0.103	2
06131	Chromium	7440-47-3	14.2		0.124	0.413	2
06132	Cobalt	7440-48-4	7.53		0.0206	0.103	2
06133	Copper	7440-50-8	7.79		0.0826	0.413	2
06135	Lead	7439-92-1	5.38		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.293		0.0516	0.103	2
06139	Nickel	7440-02-0	9.12		0.103	0.413	2
06141	Selenium	7782-49-2	0.133	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.103	2
06145	Thallium	7440-28-0	0.291		0.0310	0.103	2
06148	Vanadium	7440-62-2	34.8		0.0227	0.103	2
06149	Zinc	7440-66-6	74.8		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.93	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488953
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 12:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 11:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488954
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.6	J	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	5.0		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488955
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9201 SDG#: DE292-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.6	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.9		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 21:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Fluoranthene	206-44-0	49	J	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenanthrene	85-01-8	52	J	19	190	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	Pyrene	129-00-0	35	J	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		6.77	22.4	1
07914	Boron	7440-42-8	8.36		0.403	5.59	1
01650	Calcium	7440-70-2	101,000		14.0	112	5
01654	Iron	7439-89-6	26,000		2.92	22.4	1
01656	Lithium	7439-93-2	21.3		0.69	2.2	1
01657	Magnesium	7439-95-4	7,170		0.492	11.2	1
06958	Manganese	7439-96-5	357		0.0403	0.559	1
10145	Phosphorus	7723-14-0	576		0.392	11.2	1
01662	Potassium	7440-09-7	3,670		12.6	55.9	1
01667	Sodium	7440-23-5	113		6.66	112	1
07968	Strontium	7440-24-6	128		0.0280	0.559	1
06969	Tin	7440-31-5	3.12	J	0.358	11.2	1
06970	Titanium	7440-32-6	922		0.0794	1.12	1
10146	Zirconium	7440-67-7	4.69	J	0.515	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0820	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.01		0.0886	0.443	2
06126	Barium	7440-39-3	90.2		0.117	0.443	2
06127	Beryllium	7440-41-7	0.830		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.322		0.0487	0.111	2
06131	Chromium	7440-47-3	33.5		0.133	0.443	2
06132	Cobalt	7440-48-4	10.2		0.0222	0.111	2
06133	Copper	7440-50-8	21.2		0.0886	0.443	2
06135	Lead	7439-92-1	11.2		0.0113	0.222	2
06138	Molybdenum	7439-98-7	0.374		0.0554	0.111	2
06139	Nickel	7440-02-0	20.5		0.111	0.443	2
06141	Selenium	7782-49-2	0.217	J	0.0643	0.443	2
06142	Silver	7440-22-4	0.0273	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.285		0.0332	0.111	2
06148	Vanadium	7440-62-2	56.9		0.0244	0.111	2
06149	Zinc	7440-66-6	61.3		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.94	J	0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.38	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 11:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 20:23	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	113410017A	12/09/2011 14:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	113410017A	12/08/2011 08:55	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:12	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:20	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488956
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9202 SDG#: DE292-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:07	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 19:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 13:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 11:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,800		6.67	22.1	1
07914	Boron	7440-42-8	6.80		0.397	5.51	1
01650	Calcium	7440-70-2	80,900		13.8	110	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,500		2.88	22.1	1
01656	Lithium	7439-93-2	25.0		0.68	2.2	1
01657	Magnesium	7439-95-4	6,900		0.485	11.0	1
06958	Manganese	7439-96-5	394		0.0397	0.551	1
10145	Phosphorus	7723-14-0	432		0.386	11.0	1
01662	Potassium	7440-09-7	3,140		12.5	55.1	1
01667	Sodium	7440-23-5	142		6.56	110	1
07968	Strontium	7440-24-6	91.0		0.0276	0.551	1
06969	Tin	7440-31-5	2.87	J	0.353	11.0	1
06970	Titanium	7440-32-6	1,020		0.0783	1.10	1
10146	Zirconium	7440-67-7	5.66		0.507	5.51	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0808	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.19		0.0873	0.437	2
06126	Barium	7440-39-3	99.0		0.116	0.437	2
06127	Beryllium	7440-41-7	0.857		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.350		0.0480	0.109	2
06131	Chromium	7440-47-3	36.8		0.131	0.437	2
06132	Cobalt	7440-48-4	12.7		0.0218	0.109	2
06133	Copper	7440-50-8	20.3		0.0873	0.437	2
06135	Lead	7439-92-1	11.4		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.434		0.0546	0.109	2
06139	Nickel	7440-02-0	22.7		0.109	0.437	2
06141	Selenium	7782-49-2	0.206	J	0.0633	0.437	2
06142	Silver	7440-22-4	0.0297	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.302		0.0328	0.109	2
06148	Vanadium	7440-62-2	61.9		0.0240	0.109	2
06149	Zinc	7440-66-6	65.6		0.611	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.37	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 11:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 20:54	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:32	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488957
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9203 SDG#: DE292-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:09	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,200		6.57	21.7	1
07914	Boron	7440-42-8	7.84		0.391	5.43	1
01650	Calcium	7440-70-2	116,000		13.6	109	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,300		2.83	21.7	1
01656	Lithium	7439-93-2	22.3		0.67	2.2	1
01657	Magnesium	7439-95-4	6,240		0.478	10.9	1
06958	Manganese	7439-96-5	403		0.0391	0.543	1
10145	Phosphorus	7723-14-0	502		0.380	10.9	1
01662	Potassium	7440-09-7	3,220		12.3	54.3	1
01667	Sodium	7440-23-5	200		6.46	109	1
07968	Strontium	7440-24-6	98.9		0.0271	0.543	1
06969	Tin	7440-31-5	2.93	J	0.348	10.9	1
06970	Titanium	7440-32-6	932		0.0771	1.09	1
10146	Zirconium	7440-67-7	4.14	J	0.500	5.43	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0796	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.28		0.0860	0.430	2
06126	Barium	7440-39-3	107		0.114	0.430	2
06127	Beryllium	7440-41-7	0.906		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.330		0.0473	0.108	2
06131	Chromium	7440-47-3	36.0		0.129	0.430	2
06132	Cobalt	7440-48-4	10.5		0.0215	0.108	2
06133	Copper	7440-50-8	17.2		0.0860	0.430	2
06135	Lead	7439-92-1	9.62		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.396		0.0538	0.108	2
06139	Nickel	7440-02-0	20.5		0.108	0.430	2
06141	Selenium	7782-49-2	0.206	J	0.0624	0.430	2
06142	Silver	7440-22-4	0.0356	J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.324		0.0323	0.108	2
06148	Vanadium	7440-62-2	61.7		0.0237	0.108	2
06149	Zinc	7440-66-6	60.6		0.602	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.45	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 12:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 21:26	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 22:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:40	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488958
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9204 SDG#: DE292-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:11	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11341243202A	12/10/2011 12:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.54	21.6	1
07914	Boron	7440-42-8	6.42		0.389	5.41	1
01650	Calcium	7440-70-2	117,000		13.5	108	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,800		2.82	21.6	1
01656	Lithium	7439-93-2	22.9		0.67	2.2	1
01657	Magnesium	7439-95-4	6,190		0.476	10.8	1
06958	Manganese	7439-96-5	390		0.0389	0.541	1
10145	Phosphorus	7723-14-0	396		0.378	10.8	1
01662	Potassium	7440-09-7	2,500		12.2	54.1	1
01667	Sodium	7440-23-5	368		6.43	108	1
07968	Strontium	7440-24-6	92.6		0.0270	0.541	1
06969	Tin	7440-31-5	2.87	J	0.346	10.8	1
06970	Titanium	7440-32-6	1,030		0.0768	1.08	1
10146	Zirconium	7440-67-7	6.18		0.497	5.41	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0808	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.32		0.0873	0.437	2
06126	Barium	7440-39-3	189		0.116	0.437	2
06127	Beryllium	7440-41-7	0.967		0.0175	0.109	2
06128	Cadmium	7440-43-9	0.472		0.0480	0.109	2
06131	Chromium	7440-47-3	45.7		0.131	0.437	2
06132	Cobalt	7440-48-4	14.7		0.0218	0.109	2
06133	Copper	7440-50-8	22.8		0.0873	0.437	2
06135	Lead	7439-92-1	12.6		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.680		0.0546	0.109	2
06139	Nickel	7440-02-0	28.5		0.109	0.437	2
06141	Selenium	7782-49-2	0.256	J	0.0633	0.437	2
06142	Silver	7440-22-4	0.0276	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.383		0.0328	0.109	2
06148	Vanadium	7440-62-2	78.9		0.0240	0.109	2
06149	Zinc	7440-66-6	74.5		0.611	3.28	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.66	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 12:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 21:57	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 23:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/09/2011 03:48	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:39	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488959
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9205 SDG#: DE292-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/13/2011 22:13	Parker D Lindstrom	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 20:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 15:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.22	20.6	1
07914	Boron	7440-42-8	0.370	U	0.370	5.14	1
01650	Calcium	7440-70-2	3,440		2.57	20.6	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,300		2.69	20.6	1
01656	Lithium	7439-93-2	21.2		0.64	2.1	1
01657	Magnesium	7439-95-4	4,090		0.453	10.3	1
06958	Manganese	7439-96-5	280		0.0370	0.514	1
10145	Phosphorus	7723-14-0	378		0.360	10.3	1
01662	Potassium	7440-09-7	2,080		11.6	51.4	1
01667	Sodium	7440-23-5	60.6	J	6.12	103	1
07968	Strontium	7440-24-6	7.31		0.0257	0.514	1
06969	Tin	7440-31-5	3.27	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,120		0.0730	1.03	1
10146	Zirconium	7440-67-7	1.90	J	0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0761	U	0.0761	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.83		0.0823	0.411	2
06126	Barium	7440-39-3	63.6		0.109	0.411	2
06127	Beryllium	7440-41-7	0.475		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.103	2
06131	Chromium	7440-47-3	10.2		0.123	0.411	2
06132	Cobalt	7440-48-4	5.17		0.0206	0.103	2
06133	Copper	7440-50-8	5.24		0.0823	0.411	2
06135	Lead	7439-92-1	3.61		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.230		0.0514	0.103	2
06139	Nickel	7440-02-0	5.96		0.103	0.411	2
06141	Selenium	7782-49-2	0.107	J	0.0597	0.411	2
06142	Silver	7440-22-4	0.0146	U	0.0146	0.103	2
06145	Thallium	7440-28-0	0.246		0.0309	0.103	2
06148	Vanadium	7440-62-2	25.5		0.0226	0.103	2
06149	Zinc	7440-66-6	52.8		0.576	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.56	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11341SLB026	12/12/2011 13:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11339SLE026	12/16/2011 22:28	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11339SLE026	12/06/2011 07:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11341SLB026	12/07/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113400026A	12/08/2011 23:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113400026A	12/07/2011 05:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113395708003	12/08/2011 05:43	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113391026003D	12/08/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488960
LLI Group # 1279335
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/19/2011 11:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E9206 SDG#: DE292-06FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113391026003C	12/08/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113391026003B	12/08/2011 11:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113391026003A	12/08/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113395711004	12/06/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113395708003	12/05/2011 22:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113391026003	12/06/2011 13:05	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113395711004	12/06/2011 13:53	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11348621201A	12/15/2011 21:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11343621204A	12/10/2011 16:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11341243202A	12/10/2011 12:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11348621201A	12/14/2011 07:50	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11343621204A	12/09/2011 08:20	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11347039401A	12/13/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11341243202A	12/07/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11339SLE026	Sample number(s): 6488950-6488952,6488956-6488960									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	99		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	112		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	115		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	112		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	76		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	107		72-119		
Batch number: 11341SLB026	Sample number(s): 6488950-6488952,6488956-6488960									
Acenaphthene	17	U	17.	170	ug/kg	88		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	88		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	89		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	95		67-125		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	91		75-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	41		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	87		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	83		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	73		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	90		74-115		
Chrysene	17	U	17.	170	ug/kg	88		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	89		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	88		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	52		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	92		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	90		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	91		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	92		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	91		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	87		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	82		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	86		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	78		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	81		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	91		51-117		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Pyrene	17	U	17.	170	ug/kg	92		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 113410017A	Sample number(s): 6488956									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	117*		85-115		
Batch number: 113400026A	Sample number(s): 6488950-6488952,6488954-6488960									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	77		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113391026003A	Sample number(s): 6488950-6488953,6488956-6488960									
Antimony	0.0712	U	0.0712	0.192	mg/kg	69		40-227		
Arsenic	0.0769	U	0.0769	0.385	mg/kg	99		83-111		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	97		84-112		
Cadmium	0.0423	U	0.0423	0.0962	mg/kg	104		83-111		
Chromium	0.115	U	0.115	0.385	mg/kg	110		77-123		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	105		85-114		
Copper	0.0769	U	0.0769	0.385	mg/kg	103		81-110		
Lead	0.0098	U	0.0098	0.192	mg/kg	100		84-112		
Nickel	0.0962	U	0.0962	0.385	mg/kg	99		81-110		
Silver	0.0137	U	0.0137	0.0962	mg/kg	100		83-112		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	99		82-112		
Vanadium	0.0212	U	0.0212	0.0962	mg/kg	103		76-110		
Zinc	0.538	U	0.538	2.88	mg/kg	103		82-110		
Batch number: 113391026003B	Sample number(s): 6488950-6488953,6488956-6488960									
Selenium	0.0558	U	0.0558	0.385	mg/kg	99		79-110		
Batch number: 113391026003C	Sample number(s): 6488950-6488953,6488956-6488960									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	99		80-110		
Batch number: 113391026003D	Sample number(s): 6488950-6488953,6488956-6488960									
Barium	0.102	U	0.102	0.385	mg/kg	102		83-110		
Batch number: 113395708003	Sample number(s): 6488950-6488953,6488956-6488960									
Aluminum	10.1	J	6.05	20.0	mg/kg	80		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	103		83-110		
Calcium	9.44	J	2.50	20.0	mg/kg	102		81-110		
Iron	4.21	J	2.61	20.0	mg/kg	94		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	100		80-120		
Magnesium	4.45	J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	99		85-116		
Phosphorus	1.34	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	100		71-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	6.93	J	5.95	100	mg/kg	102		76-110		
Strontium	0.0380	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.49	J	0.320	10.0	mg/kg	110		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	95		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 113395711004	Sample number(s): 6488950-6488953,6488956-6488960									
Mercury	0.0070	U	0.0070	0.0991	mg/kg	96		83-119		
Batch number: 11341243202A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11343621204A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11348621201A	Sample number(s): 6488950-6488951,6488953,6488956-6488960									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11347039401A	Sample number(s): 6488950,6488953,6488956-6488960									
17a pH by 9045C						100		95-105		
Batch number: 11343162402A	Sample number(s): 6488950-6488954,6488956-6488960									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11339SLE026	Sample number(s): 6488950-6488952,6488956-6488960 UNSPK: 6488950								
Acenaphthene	98	97	63-105	0	30				
Acenaphthylene	100	101	67-114	0	30				
Anthracene	105	101	73-115	3	30				
Benzo(a)anthracene	103	98	59-128	5	30				
Benzo(a)pyrene	106	100	58-142	6	30				
Benzo(b)fluoranthene	103	98	54-163	5	30				
Benzo(g,h,i)perylene	97	92	33-141	5	30				
Benzo(k)fluoranthene	98	94	57-153	5	30				
Butylbenzylphthalate	109	116	57-173	7	30				
Di-n-butylphthalate	122	120	65-148	2	30				
Chrysene	104	101	67-123	2	30				
Dibenz(a,h)anthracene	105	96	22-133	8	30				
Diethylphthalate	115	110	70-136	4	30				
Dimethylphthalate	106	107	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	126	130	39-167	3	30				
Fluoranthene	108	107	51-149	1	30				
Fluorene	105	101	66-122	4	30				
Indeno(1,2,3-cd)pyrene	106	96	21-143	10	30				
1-Methylnaphthalene	88	89	72-123	0	30				
2-Methylnaphthalene	86	87	64-103	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	90	90	61-102	0	30				
N-Nitrosodimethylamine	93	93	48-113	0	30				
Di-n-octylphthalate	111	109	40-192	2	30				
Phenanthrene	100	98	62-122	2	30				
Pyrene	104	98	51-131	6	30				
Batch number: 11341SLB026	Sample number(s): 6488950-6488952,6488956-6488960 UNSPK: 6488950								
Acenaphthene	87	91	75-115	5	30				
Acenaphthylene	99	103	81-110	4	30				
Aniline	62	56	18-116	11	30				
Anthracene	93	96	75-115	4	30				
Benzidine	15*	0*	35-141	200*	30				
Benzo(a)anthracene	87	92	65-122	5	30				
Benzo(a)pyrene	98	100	57-126	1	30				
Benzo(b)fluoranthene	99	106	59-125	6	30				
Benzo(g,h,i)perylene	89	93	59-127	5	30				
Benzo(k)fluoranthene	96	97	56-132	0	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	87	90	67-115	3	30				
4-Bromophenyl-phenylether	90	91	67-129	1	30				
Butylbenzylphthalate	90	91	73-134	2	30				
Di-n-butylphthalate	94	96	67-123	2	30				
Carbazole	91	93	64-120	2	30				
4-Chloro-3-methylphenol	89	90	62-122	1	30				
4-Chloroaniline	54	49	13-107	10	30				
bis(2-Chloroethoxy)methane	84	88	75-104	4	30				
bis(2-Chloroethyl)ether	86	90	60-116	5	30				
bis(2-Chloroisopropyl)ether	81	84	55-142	5	30				
2-Chloronaphthalene	71	76	50-141	6	30				
2-Chlorophenol	87	92	73-121	5	30				
4-Chlorophenyl-phenylether	90	94	80-109	5	30				
Chrysene	86	91	62-128	5	30				
Dibenz(a,h)anthracene	91	94	65-125	3	30				
Dibenzofuran	86	91	71-112	5	30				
1,2-Dichlorobenzene	79	84	66-108	6	30				
1,3-Dichlorobenzene	79	84	63-109	6	30				
1,4-Dichlorobenzene	80	83	58-108	4	30				
3,3'-Dichlorobenzidine	50	47	28-109	6	30				
2,4-Dichlorophenol	92	96	66-123	4	30				
Diethylphthalate	91	95	66-118	4	30				
2,4-Dimethylphenol	88	91	68-118	3	30				
3,5-Dimethylphenol	94	97	71-127	3	30				
Dimethylphthalate	90	93	64-118	4	30				
4,6-Dinitro-2-methylphenol	49	38	11-126	25	30				
2,4-Dinitrophenol	27	20	20-143	28	30				
2,4-Dinitrotoluene	91	95	56-129	4	30				
2,6-Dinitrotoluene	94	97	69-123	3	30				
1,2-Diphenylhydrazine	88	90	71-129	2	30				
bis(2-Ethylhexyl)phthalate	87	92	63-122	5	30				
Fluoranthene	95	98	73-112	3	30				
Fluorene	93	96	63-121	3	30				
Hexachlorobenzene	90	93	77-114	3	30				
Hexachlorobutadiene	81	89	62-120	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorocyclopentadiene	77	84	10-153	9	30				
Hexachloroethane	80	83	57-109	4	30				
Indeno(1,2,3-cd)pyrene	91	90	61-126	1	30				
Isophorone	85	88	73-102	3	30				
1-Methylnaphthalene	81	86	64-122	5	30				
2-Methylnaphthalene	84	89	76-114	5	30				
2-Methylphenol	90	93	75-111	3	30				
4-Methylphenol	84	85	59-123	2	30				
Naphthalene	86	89	72-116	3	30				
2-Nitroaniline	92	96	67-125	4	30				
3-Nitroaniline	87	88	59-122	1	30				
4-Nitroaniline	61	60	41-109	2	30				
Nitrobenzene	84	89	57-125	5	30				
2-Nitrophenol	87	91	56-127	5	30				
4-Nitrophenol	75	78	37-129	4	30				
N-Nitroso-di-n-propylamine	79	80	60-116	2	30				
N-Nitrosodimethylamine	78	80	47-116	3	30				
N-Nitrosodiphenylamine	92	94	71-122	3	30				
Di-n-octylphthalate	102	103	56-126	0	30				
Pentachlorophenol	78	73	28-127	7	30				
Phenanthrene	91	93	65-125	2	30				
Phenol	87	88	58-126	1	30				
Pyrene	92	92	74-126	1	30				
1,2,4-Trichlorobenzene	85	89	72-115	4	30				
2,4,5-Trichlorophenol	93	96	58-129	3	30				
2,4,6-Trichlorophenol	92	95	56-134	3	30				
Batch number: 113410017A	Sample number(s): 6488956 UNSPK: 6488956								
6a Perchlorate EPA 6850	114	119	80-120	4	20				
Batch number: 113400026A	Sample number(s): 6488950-6488952,6488954-6488960 UNSPK: 6488950								
PCB-1016	63	74	29-146	17	50				
PCB-1260	72	93	39-149	26	50				
Batch number: 113391026003A	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Antimony	34*	32*	75-125	6	20	0.0733 U	0.0725 U	0 (1)	20
Arsenic	140*	136*	75-125	1	20	6.30	7.02	11	20
Beryllium	96	104	75-125	5	20	0.569	0.665	16	20
Cadmium	101	107	75-125	5	20	0.0562 J	0.0617 J	9 (1)	20
Chromium	105	117	75-125	5	20	13.2	13.5	3	20
Cobalt	108	112	75-125	3	20	7.31	7.15	2	20
Copper	106	116	75-125	5	20	7.03	7.40	5	20
Lead	110	110	75-125	0	20	4.84	5.11	5	20
Nickel	100	107	75-125	4	20	8.12	8.67	6	20
Silver	107	108	75-125	1	20	0.0141 U	0.0139 U	0 (1)	20
Thallium	93	95	75-125	1	20	0.274	0.276	1 (1)	20
Vanadium	111	129*	75-125	4	20	30.0	33.1	10	20
Zinc	77 (2)	123 (2)	75-125	6	20	63.8	71.0	11	20
Batch number: 113391026003B	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Selenium	100	118	75-125	15	20	0.102 J	0.126 J	21* (1)	20
Batch number: 113391026003C	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	100	102	75-125	2	20	0.314	0.278	12 (1)	20
Batch number: 113391026003D	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Barium	54 (2)	109 (2)	75-125	6	20	82.6	86.8	5	20
Batch number: 113395708003	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Aluminum	996 (2)	1240 (2)	75-125	3	20	10,900	11,100	2	20
Boron	98	98	84-115	1	20	0.360 U	0.353 U	0 (1)	20
Calcium	122 (2)	144 (2)	75-125	2	20	3,490	4,800	32*	20
Iron	-418 (2)	1097 (2)	75-125	7	20	21,500	21,800	1	20
Lithium	98	98	82-114	1	20	22.0	21.8	1	20
Magnesium	72 (2)	157 (2)	75-125	4	20	4,170	4,180	0	20
Manganese	75 (2)	44 (2)	75-125	5	20	305	330	8	20
Phosphorus	87 (2)	107 (2)	75-125	3	20	448	452	1	20
Potassium	101	106	75-125	1	20	2,340	2,170	8	20
Sodium	97	96	75-125	2	20	60.7 J	61.2 J	1 (1)	20
Strontium	94	95	75-125	0	20	6.91	7.78	12	20
Tin	94	95	80-110	1	20	3.39 J	3.25 J	4 (1)	20
Titanium	191 (2)	239 (2)	75-125	3	20	1,130	1,090	4	20
Zirconium	100	99	81-110	1	20	2.06 J	2.63 J	24* (1)	20
Batch number: 113395711004	Sample number(s): 6488950-6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
Mercury	103	102	65-135	1	20	0.0066 U	0.0067 U	0 (1)	20
Batch number: 11341243202A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
3a Cr VI by EPA 7199	108		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11343621204A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11348621201A	Sample number(s): 6488950-6488951,6488953,6488956-6488960 UNSPK: 6488950 BKG: 6488950								
11a Anions by 300.0 - Fluoride	98		80-120			0.80 U	1.1	200* (1)	20
Batch number: 11347039401A	Sample number(s): 6488950,6488953,6488956-6488960 BKG: 6488950								
17a pH by 9045C						7.91	7.93	0	3
Batch number: 11343162402A	Sample number(s): 6488950-6488954,6488956-6488960 BKG: 6488950								
28a Moisture Content by 160.3						5.0	5.3	7	20
Moisture Content by 160.3						5.0	5.3	7	20
Moisture Content by 160.3						5.0	5.3	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11339SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6488950	99	89	98
6488951	106	90	94
6488952	106	93	95
6488956	98	96	101
6488957	88	91	91
6488958	95	87	102
6488959	94	99	100
6488960	89	91	99
Blank	97	93	104
LCS	112	95	98
MS	106	90	94
MSD	106	93	95
Limits:	67-129	63-129	51-141

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11341SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6488950	91	96	92	85	90	84
6488951	88	92	92	81	84	79
6488952	90	95	92	84	91	82
6488956	94	99	94	83	87	84
6488957	95	98	91	81	88	82
6488958	88	93	87	78	85	83
6488959	94	98	93	83	88	86
6488960	89	93	95	84	89	86
Blank	91	95	91	84	90	84
LCS	90	94	91	81	85	81
MS	88	92	92	81	84	79
MSD	90	95	92	84	91	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113400026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6488950	91	105
6488951	75	84
6488952	91	100
6488954	88	102
6488955	86	100
6488956	88	100
6488957	81	90
6488958	85	95
6488959	93	104
6488960	87	100
Blank	71	82
LCS	92	108
LCSD	91	106
MS	75	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279335
Reported: 12/19/11 at 11:48 AM

Surrogate Quality Control

MSD	91	100
Limits:	53-139	45-120

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(2) The unspiked result was more than four times the spike added.

acct#13013 Cap# 1279335 Sample# 6433950-60

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYTES									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-SS Sleeve			X	X						MS/MSD
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		MS/MSD
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-SS Sleeve			X	X						
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	12/02/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	12/2/11 0910	8767 9857 5030	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/03/2011
Group Number: 1279336
SDG: DX157
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-019-SA8S-SB-4.0-5.0 Soil	6488961
SL-019-SA8S-SB-4.0-5.0MS Soil	6488962
SL-019-SA8S-SB-4.0-5.0MSD Soil	6488963
SL-020-SA8S-SB-4.0-5.0 Soil	6488964
SL-020-SA8S-SB-9.0-10.0 Soil	6488965
SL-021-SA8S-SB-4.0-5.0 Soil	6488966
SL-021-SA8S-SB-9.0-10.0 Soil	6488967
DUP02-SA8S-QC-120211 Soil	6488968

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0305 JBQ	0.0145	1.05	1
11031	12378-PeCDD	40321-76-4	0.0394 JB	0.0149	5.25	1
11031	123478-HxCDD	39227-28-6	0.0352 JB	0.0132	5.25	1
11031	123678-HxCDD	57653-85-7	0.0428 JB	0.0136	5.25	1
11031	123789-HxCDD	19408-74-3	0.0397 JBQ	0.0127	5.25	1
11031	1234678-HpCDD	35822-46-9	0.316 JBQ	0.0158	5.25	1
11031	OCDD	3268-87-9	0.550 JB	0.0160	10.5	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.05	1
11031	12378-PeCDF	57117-41-6	0.0360 JB	0.00779	5.25	1
11031	23478-PeCDF	57117-31-4	0.0732 JBQ	0.00737	5.25	1
11031	123478-HxCDF	70648-26-9	0.0533 JB	0.00989	5.25	1
11031	123678-HxCDF	57117-44-9	0.0445 JBQ	0.00926	5.25	1
11031	123789-HxCDF	72918-21-9	0.0534 JB	0.0100	5.25	1
11031	234678-HxCDF	60851-34-5	0.0560 JBQ	0.00958	5.25	1
11031	1234678-HpCDF	67562-39-4	0.131 JB	0.00853	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0352 JBQ	0.0108	5.25	1
11031	OCDF	39001-02-0	0.151 JB	0.0128	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488961
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/16/2011 23:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.7	B	0.0195	1.04	1
11031	12378-PeCDD	40321-76-4	102	B	0.0211	5.20	1
11031	123478-HxCDD	39227-28-6	97.7	B	0.0280	5.20	1
11031	123678-HxCDD	57653-85-7	98.2	B	0.0301	5.20	1
11031	123789-HxCDD	19408-74-3	106	B	0.0274	5.20	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0294	5.20	1
11031	OCDD	3268-87-9	206	B	0.0235	10.4	1
11031	2378-TCDF	51207-31-9	20.6	B	0.0254	1.04	1
11031	12378-PeCDF	57117-41-6	105	B	0.0205	5.20	1
11031	23478-PeCDF	57117-31-4	96.9	B	0.0187	5.20	1
11031	123478-HxCDF	70648-26-9	107	B	0.0371	5.20	1
11031	123678-HxCDF	57117-44-9	104	B	0.0319	5.20	1
11031	123789-HxCDF	72918-21-9	105	B	0.0344	5.20	1
11031	234678-HxCDF	60851-34-5	103	B	0.0342	5.20	1
11031	1234678-HpCDF	67562-39-4	96.7	B	0.0240	5.20	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0302	5.20	1
11031	OCDF	39001-02-0	205	B	0.0198	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488962
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 05:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.1	B	0.0199	1.04	1
11031	12378-PeCDD	40321-76-4	103	B	0.0280	5.19	1
11031	123478-HxCDD	39227-28-6	96.9	B	0.0236	5.19	1
11031	123678-HxCDD	57653-85-7	97.3	B	0.0237	5.19	1
11031	123789-HxCDD	19408-74-3	106	B	0.0224	5.19	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0255	5.19	1
11031	OCDD	3268-87-9	202	B	0.0217	10.4	1
11031	2378-TCDF	51207-31-9	20.4	B	0.0235	1.04	1
11031	12378-PeCDF	57117-41-6	102	B	0.0199	5.19	1
11031	23478-PeCDF	57117-31-4	98.9	B	0.0200	5.19	1
11031	123478-HxCDF	70648-26-9	107	B	0.0442	5.19	1
11031	123678-HxCDF	57117-44-9	106	B	0.0405	5.19	1
11031	123789-HxCDF	72918-21-9	107	B	0.0409	5.19	1
11031	234678-HxCDF	60851-34-5	101	B	0.0411	5.19	1
11031	1234678-HpCDF	67562-39-4	95.8	B	0.0234	5.19	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0287	5.19	1
11031	OCDF	39001-02-0	205	B	0.0227	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SB

LLI Sample # SW 6488963
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:10

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5701 SDG#: DX157-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 06:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0395 JB	0.0133	1.12	1
11031	12378-PeCDD	40321-76-4	0.0780 JBQ	0.0165	5.62	1
11031	123478-HxCDD	39227-28-6	0.0492 JBQ	0.0139	5.62	1
11031	123678-HxCDD	57653-85-7	0.0765 JBQ	0.0144	5.62	1
11031	123789-HxCDD	19408-74-3	0.0605 JBQ	0.0132	5.62	1
11031	1234678-HpCDD	35822-46-9	0.464 JB	0.0165	5.62	1
11031	OCDD	3268-87-9	2.43 JB	0.0120	11.2	1
11031	2378-TCDF	51207-31-9	0.0162 JBQ	0.0141	1.12	1
11031	12378-PeCDF	57117-41-6	0.0805 JBQ	0.00825	5.62	1
11031	23478-PeCDF	57117-31-4	0.100 JB	0.00791	5.62	1
11031	123478-HxCDF	70648-26-9	0.0706 JBQ	0.0106	5.62	1
11031	123678-HxCDF	57117-44-9	0.0619 JBQ	0.00960	5.62	1
11031	123789-HxCDF	72918-21-9	0.0728 JBQ	0.00983	5.62	1
11031	234678-HxCDF	60851-34-5	0.0724 JBQ	0.00994	5.62	1
11031	1234678-HpCDF	67562-39-4	0.186 JB	0.00678	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0626 JB	0.00904	5.62	1
11031	OCDF	39001-02-0	0.241 JB	0.0134	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488964
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:15

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5702 SDG#: DX157-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 07:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0197 JBQ	0.0118	1.08	1
11031	12378-PeCDD	40321-76-4	0.0480 JB	0.0179	5.41	1
11031	123478-HxCDD	39227-28-6	0.0399 JBQ	0.0118	5.41	1
11031	123678-HxCDD	57653-85-7	0.0503 JBQ	0.0126	5.41	1
11031	123789-HxCDD	19408-74-3	0.0556 JB	0.0116	5.41	1
11031	1234678-HpCDD	35822-46-9	0.362 JB	0.0137	5.41	1
11031	OCDD	3268-87-9	0.752 JB	0.0135	10.8	1
11031	2378-TCDF	51207-31-9	0.0138 U	0.0138	1.08	1
11031	12378-PeCDF	57117-41-6	0.0463 JBQ	0.00780	5.41	1
11031	23478-PeCDF	57117-31-4	0.0542 JB	0.00746	5.41	1
11031	123478-HxCDF	70648-26-9	0.0476 JB	0.00857	5.41	1
11031	123678-HxCDF	57117-44-9	0.0490 JBQ	0.00846	5.41	1
11031	123789-HxCDF	72918-21-9	0.0653 JB	0.00891	5.41	1
11031	234678-HxCDF	60851-34-5	0.0501 JB	0.00857	5.41	1
11031	1234678-HpCDF	67562-39-4	0.156 JB	0.00724	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0529 JB	0.00913	5.41	1
11031	OCDF	39001-02-0	0.185 JB	0.0131	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SB

LLI Sample # SW 6488965
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 11:45

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5703 SDG#: DX157-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 08:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0130 JBQ	0.0130	1.11	1
11031	12378-PeCDD	40321-76-4	0.0404 JBQ	0.0149	5.55	1
11031	123478-HxCDD	39227-28-6	0.0248 JBQ	0.0147	5.55	1
11031	123678-HxCDD	57653-85-7	0.0516 JBQ	0.0151	5.55	1
11031	123789-HxCDD	19408-74-3	0.0572 JBQ	0.0139	5.55	1
11031	1234678-HpCDD	35822-46-9	0.414 JBQ	0.0142	5.55	1
11031	OCDD	3268-87-9	0.763 JB	0.0143	11.1	1
11031	2378-TCDF	51207-31-9	0.0239 JBQ	0.0120	1.11	1
11031	12378-PeCDF	57117-41-6	0.0455 JB	0.00794	5.55	1
11031	23478-PeCDF	57117-31-4	0.0905 JB	0.00805	5.55	1
11031	123478-HxCDF	70648-26-9	0.0543 JB	0.00861	5.55	1
11031	123678-HxCDF	57117-44-9	0.0404 JB	0.00783	5.55	1
11031	123789-HxCDF	72918-21-9	0.0484 JB	0.00850	5.55	1
11031	234678-HxCDF	60851-34-5	0.0574 JB	0.00850	5.55	1
11031	1234678-HpCDF	67562-39-4	0.164 JB	0.00682	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0455 JBQ	0.00884	5.55	1
11031	OCDF	39001-02-0	0.162 JB	0.0134	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488966
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:00

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5704 SDG#: DX157-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 09:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0322 JBQ	0.0134	1.09	1
11031	12378-PeCDD	40321-76-4	0.0610 JBQ	0.0133	5.46	1
11031	123478-HxCDD	39227-28-6	0.0269 JB	0.0119	5.46	1
11031	123678-HxCDD	57653-85-7	0.0403 JBQ	0.0122	5.46	1
11031	123789-HxCDD	19408-74-3	0.0429 JBQ	0.0109	5.46	1
11031	1234678-HpCDD	35822-46-9	0.311 JB	0.0129	5.46	1
11031	OCDD	3268-87-9	0.658 JB	0.0124	10.9	1
11031	2378-TCDF	51207-31-9	0.0118 U	0.0118	1.09	1
11031	12378-PeCDF	57117-41-6	0.0422 JBQ	0.00690	5.46	1
11031	23478-PeCDF	57117-31-4	0.0630 JB	0.00668	5.46	1
11031	123478-HxCDF	70648-26-9	0.0433 JB	0.00869	5.46	1
11031	123678-HxCDF	57117-44-9	0.0307 JBQ	0.00824	5.46	1
11031	123789-HxCDF	72918-21-9	0.0456 JB	0.00780	5.46	1
11031	234678-HxCDF	60851-34-5	0.0461 JB	0.00824	5.46	1
11031	1234678-HpCDF	67562-39-4	0.148 JB	0.00590	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0288 JBQ	0.00724	5.46	1
11031	OCDF	39001-02-0	0.143 JBQ	0.0117	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SB

LLI Sample # SW 6488967
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 14:30

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5705 SDG#: DX157-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 10:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249 JB	0.0112	1.04	1
11031	12378-PeCDD	40321-76-4	0.0544 JBQ	0.0121	5.18	1
11031	123478-HxCDD	39227-28-6	0.0242 JBQ	0.00923	5.18	1
11031	123678-HxCDD	57653-85-7	0.0389 JBQ	0.0102	5.18	1
11031	123789-HxCDD	19408-74-3	0.0402 JB	0.00892	5.18	1
11031	1234678-HpCDD	35822-46-9	0.254 JBQ	0.0130	5.18	1
11031	OCDD	3268-87-9	0.411 JB	0.0140	10.4	1
11031	2378-TCDF	51207-31-9	0.0261 JBQ	0.0112	1.04	1
11031	12378-PeCDF	57117-41-6	0.0572 JBQ	0.00745	5.18	1
11031	23478-PeCDF	57117-31-4	0.0773 JB	0.00672	5.18	1
11031	123478-HxCDF	70648-26-9	0.0472 JB	0.00714	5.18	1
11031	123678-HxCDF	57117-44-9	0.0455 JB	0.00703	5.18	1
11031	123789-HxCDF	72918-21-9	0.0458 JB	0.00745	5.18	1
11031	234678-HxCDF	60851-34-5	0.0382 JB	0.00661	5.18	1
11031	1234678-HpCDF	67562-39-4	0.125 JB	0.00577	5.18	1
11031	1234789-HpCDF	55673-89-7	0.0323 JB	0.00703	5.18	1
11031	OCDF	39001-02-0	0.119 JB	0.0107	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-120211 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S

LLI Sample # SW 6488968
LLI Group # 1279336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/02/2011 09:50

Submitted: 12/03/2011 09:10
Reported: 12/20/2011 17:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5706 SDG#: DX157-06FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11345001	12/17/2011 10:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11345001	12/12/2011 14:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11343162402A	12/09/2011 18:56	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11343162402A	Sample number(s): 6488961-6488968								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11345001	Sample number(s): 6488961-6488968								
2378-TCDD	0.0310 J	0.0126	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0361 J	0.0137	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0253 J	0.0108	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0333 J	0.0116	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0445 J	0.0110	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.287 J	0.0127	5.00	ng/kg	102		70-140		
OCDD	0.453 J	0.0107	10.0	ng/kg	103		78-144		
2378-TCDF	0.0116 J	0.0115	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0502 J	0.00660	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0712 J	0.00620	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0577 J	0.00900	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0395 J	0.00850	5.00	ng/kg	104		84-130		
123789-HxCDF	0.0509 J	0.00900	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0578 J	0.00890	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.186 J	0.00520	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0489 J	0.00670	5.00	ng/kg	102		78-138		
OCDF	0.172 J	0.0110	10.0	ng/kg	103		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11343162402A	Sample number(s): 6488961-6488968 BKG: P488950								
Moisture Content by 160.3						5.0	5.3	7	20
Batch number: 11345001	Sample number(s): 6488961-6488968 UNSPK: 6488961								
2378-TCDD	95	97	67-158	2	25				
12378-PeCDD	98	99	70-142	1	25				
123478-HxCDD	94	93	70-164	1	25				
123678-HxCDD	94	94	76-134	1	25				
123789-HxCDD	102	102	64-162	1	25				
1234678-HpCDD	100	99	70-140	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	99	97	78-144	2	25				
2378-TCDF	99	98	75-158	1	25				
12378-PeCDF	101	98	80-134	3	25				
23478-PeCDF	93	95	68-160	2	25				
123478-HxCDF	103	103	72-134	0	25				
123678-HxCDF	100	102	84-130	2	25				
123789-HxCDF	101	103	78-130	2	25				
234678-HxCDF	100	97	70-156	2	25				
1234678-HpCDF	93	92	82-122	1	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	99	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11345001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6488961	73	79	69	74	70	62
6488962	71	71	67	73	68	74
6488963	71	73	67	72	70	74
6488964	65	66	65	71	66	71
6488965	73	75	69	71	68	69
6488966	71	68	64	69	64	68
6488967	65	69	64	66	64	70
6488968	88	84	78	80	81	76
Blank	73	84	80	87	83	89
MS	71	71	67	73	68	74
MSD	71	73	67	72	70	74
OPR	66	76	74	79	76	86
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6488961	81	69	62	85	73	77
6488962	83	70	67	81	77	75
6488963	81	67	63	82	77	80
6488964	78	64	60	74	74	75
6488965	74	63	56	82	73	73
6488966	76	63	59	78	72	73
6488967	73	65	58	79	74	76
6488968	92	81	74	99	91	89
Blank	100	82	79	82	90	90
MS	83	70	67	81	77	75
MSD	81	67	63	82	77	80
OPR	92	78	80	76	79	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1279336
Reported: 12/20/11 at 05:43 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6488961	76	77	68	64	79	
6488962	76	79	74	59	71	
6488963	80	79	72	62	76	
6488964	78	77	67	60	70	
6488965	72	73	61	60	72	
6488966	79	76	68	60	74	
6488967	81	76	65	57	71	
6488968	96	91	84	70	84	
Blank	89	93	87	64	81	
MS	76	79	74	59	71	
MSD	80	79	72	62	76	
OPR	76	86	85	63	76	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1279336 Sample# 6433961-65

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY ANALYTES									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	
Samplers Signatures:															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers										
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-SS Sleeve			X	X						MS/MSD
SL-019-SA8S-SB-4.0-5.0MS	12.02.11	0910	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		MS/MSD
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-4.0-5.0	12.02.11	1115	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X	X	
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-SS Sleeve			X	X						
SL-020-SA8S-SB-9.0-10.0	12.02.11	1145	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-4.0-5.0	12.02.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-SS Sleeve			X	X						
SL-021-SA8S-SB-9.0-10.0	12.02.11	1430	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-SS Sleeve			X	X						
DUP02-SA8S-QC-120211	12.02.11	0950	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		
Relinquished by: (*Signature*)	Date/Time 12/02/2011 / 1630		Received for Laboratory by: (*Signature*)												Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 12/2/11 0910		Airbill No.(s) 8767 9857 5030												

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Appendix C
Data Usability Assessment Report
(On CD)

Appendix C
Data Usability Assessment Report

The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the Historic Site Assessment (HSA) Subarea 8 North and 8 South samples collected, and 2) determine whether the sample results meet the Data Quality Objectives (DQOs) outlined in the *Master Work Plan/Field Sampling and Anlaysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California (CDM Federal Programs Corporation* [CDM Smith] 2011a) (WP/FSAP) and *Revised Addendum No. 3 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subarea 8N Soil Sampling* (CDM 2011b) (WP/FSAP Addendum) and *Addendum No. 7 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7 and 8 South Soil Sampling* (CDM 2011c).

A total of 202 soil samples were collected and analyzed from 13 drainage locations, 73 surface locations, and 89 soil boring locations for Subarea 8 North. For Subarea 8 South 54 soil samples were collected and analyzed from 21 surface locations, and 21 soil boring locations.

C.1 Usability Summary

For this data usability assessment, 72 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date of when the samples were received by the laboratory. A data set is called a sample delivery group, or SDG. The analyses performed are discussed in Section 2.5 of the Subarea 8 North and 8 South Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2011a). Deviations were encountered during the field investigation for the Subarea 8 North and 8 South sampling activities and are discussed in detail in Section 2.7 of the Subarea 8 North and 8 South TM.

The data generated for the Subarea 8 North and 8 South samples together with the added data validation qualifiers are usable as reported, with the exception of five individual analyte results (0.01 percent of all analytes) that were rejected for Subarea 8 North data (five SVOC results) and 31 individual analyte results (two pesticide results, 24 herbicide results and five SVOC results) (0.40 percent of all analytes) that were rejected for Subarea 8 South data. These rejected data do not impact the overall achievement of project objectives and goals. Specific details are provided in the validation reports in this Appendix and below in Section C.8.

C.2 Data Validation Procedures

Data were validated by the independent data validation firm Laboratory Data Consultants, Inc. All data validation was conducted in accordance with *U.S. Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 2004), *EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2008), and *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (EPA 2005).

The data validation strategy employed was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III (all QC parameters except calibrations and raw data) protocols.

Table C-1 shows all SDGs that include Subarea 8 North and 8 South samples and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas[1] but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM Smith chemists reviewed 10 percent of the Subarea 8 North and 8 South sample SDGs. The purpose of the review was to identify any quality control issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM Smith's review.

C.3 Quality Assurance Objectives

Quality assurance (QA) objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The QA objectives provide a mechanism for evaluating and measuring data quality.

A review of the collected data is necessary to determine if data quality objectives established in the WP/FSAP (CDM 2011a and 2011b) have been met. The following data measurement tasks were evaluated:

- Specification and adherence to analytical method and reporting detection limit requirements
- Identification of the appropriate laboratory analytical QC requirements and verification of whether these QC requirements were met

[1] During sampling in Subarea 8 North and 8 South, EPA transitioned sampling into other subareas. Thus some sample delivery groups may contain results for sample from multiple Subareas.

- Verification that measurement performance criteria (representativeness and completeness) for the data have been met

- Verification that field procedures were followed, deviations were documented, and determination of impact on data quality from these deviations

The data validation review determines if the collected data are of sufficient quality (except for the rejected results) to support their intended use.

C.4 Summary of Field and Laboratory QA Activities

CDM Smith completed sampling activities in Subarea 8 North and 8 South in accordance with the approved WP/FSAP (CDM 2011a). A total of 202 soil samples were collected and analyzed from 13 drainage locations, 73 surface locations, and 89 soil boring locations for Subarea 8 North. For Subarea 8 South 54 soil samples were collected and analyzed from 21 surface locations, and 21 soil boring locations. Tables 2-1 and 2-2 in the Subarea 8 North and 8 South TM provides a summary of the samples collected and the laboratory analyses requested.

Table C-1 in this report presents the SDGs and validation level for the HSA Subarea 8 North and 8 South sample data. An index of samples associated with each SDG is presented at the beginning of the data validation reports presented in this appendix. The WP/FSAP (CDM 2011a) defined the procedures to be followed and the data quality requirements for the field sampling events.

C.5 Field Quality QA/QC

Field QC samples, such as matrix spike/matrix spike duplicates (MS/MSDs) and field duplicates, were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. Eleven duplicate samples and MS/MSD samples were collected for Subarea 8 North and three duplicate and MS/MSD samples were collected for Subarea 8 South. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM 2011a).

Fifteen equipment rinsate blank samples were collected for Subarea 8 North and two were collected for Subarea 8 South. The equipment rinsate blank results are presented in Table C-2 and Table C-3.

One field blank sample was collected for Subarea 8 North. No field blank samples were collected in conjunction with soil sampling in Subarea 8 South. The field blank results for Subarea 8 North are presented in Table C-4.

Thirty trip blank samples were shipped with the Subarea 8 North soil samples and two trip blank samples were shipped with the Subarea 8 South samples. The results for these samples are presented in Tables C-5 and C-6. Data qualifications based on blank detections are discussed in Section C.7.3 and in the Appendix C validation reports.

Temperature blanks were included with each shipment of samples. If a temperature blank was inadvertently left out of a cooler, the laboratory took the temperature of the cooler immediately upon receipt.

The number of field QC samples collected satisfies the minimum requirements for the Subarea 8 North and 8 South sampling events specified in the WP/FSAP (CDM 2011a). Field QA/QC objectives were accomplished through the use of appropriate sampling techniques and collection of the required QC samples at the required frequencies.

C.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCSs), MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in this appendix with the appropriate qualifiers applied. Five individual analyte results for 8 North (0.01 percent of all the analytes) and 31 individual analyte results for 8 South (0.4 percent of all analytes) were rejected as discussed below and in the validation reports presented in this appendix.

C.7 Data Quality Indicators

This section summarizes the validation performed. Individual SDG validation reports with specific sample detail are provided in this appendix.

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) as described in the WP/FSAP (CDM 2011a). These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

C.7.1 Precision

Precision is a quantitative term that estimates the reproducibility of a set of replicate measurements under a given set of conditions. It is defined as a measurement of mutual agreement between measurements of the same property and is expressed in terms of relative percent difference (RPD) between duplicate determinations.

RPD is calculated as follows:

$$\text{RPD} = \text{absolute value } [(C1-C2)/\{(C1+C2)/2)\}] \times 100\%$$

Where:

C1 = concentration of primary sample
C2 = concentration of duplicate sample

Field and analytical precision were determined from the review of the field duplicate results. The sample results were compared by calculating their RPDs. The field duplicate samples were collected in the same manner as the original samples but were collected in separate, individual containers, given separate sample identifiers, and treated as individual samples by the laboratory.

Laboratory duplicate RPD control limits are presented in the WP/FSAP (CDM 2011a) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the absolute difference equal to the RL value was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated using the following: If one result is non-detect and the other result is above the RL, the RPD result is shown as 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" or "UJ." If the field duplicate RPD was above the 50 percent criterion (and both sample results were above the RL), the field duplicate and parent sample results for that analyte were qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details are discussed in the laboratory validation reports in this appendix. Table C-7 and Table C-8 show the field duplicate pairs and RPD results for Subareas 8 North and 8 South respectively. RPD results outside of criteria are highlighted.

The following individual analyte results were qualified as estimated "J/UJ" based on precision criteria for Subarea 8 North samples:

- One dioxin result and six PCB/PCT results were qualified as estimated based on second column RPD results
- Three dioxin results; three fluoride/nitrate results; 856 metal analyte results; two mercury results; one TPH/glycol result; and six PCB/PCT results were qualified as estimated based on laboratory precision criteria
- Sixty-one dioxin results; four NDMA results; three fluoride/nitrate results; seven metal results; two hexavalent chromium results; three mercury results; three TPH/glycol results; three PCB/PCT results; seven VOC results; two SVOC results; and 44 SVOC SIM results were qualified based on field duplicate criteria

The following individual analyte results were qualified as estimated "J/UJ" based on precision criteria for Subarea 8 South samples:

- One hundred and sixty-six metal analyte results and 57 six PCB/PCT results were qualified as estimated based on laboratory precision criteria

- Twelve dioxin results; one fluoride/nitrate result; three metal results; one hexavalent chromium results; one pesticide result; four PCB/PCT results; and two herbicide results were qualified based on field duplicate criteria

There was no discernable pattern or reason for the laboratory and field sample RPD exceedances identified. No field sampling issues were identified from the RPD results that were outside of criteria and the exceedances are reasonable for this type of sampling activity. Sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

C.7.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value and is a measure of the bias in a system. Accuracy of the data was assessed by comparing LCS recovery, MS recovery, calibration recovery, Inductively Coupled Plasma (ICP) interferences, and by performing serial dilution checks during metals analyses. Accuracy is expressed as percent recovery (%R), which is calculated by:

$$\textbf{Percent Recovery} = \frac{(\textbf{Total Analyte Found} - \textbf{Analyte Originally Present})}{\textbf{Analyte Added}} \times 100$$

Analytical accuracy for the entire data collection activity is difficult to assess because several sources of error exist. Errors can be introduced by any of the following:

- Sampling procedure
- Field contamination
- Sample preservation and handling
- Sample matrix
- Sample preparation
- Analytical techniques

Accuracy is maintained to the extent possible by adhering to the EPA method and approved field and analytical standard operating procedures.

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory accuracy results and are discussed in detail in the laboratory validation reports in Appendix C.

The following individual analyte results were qualified as nondetect “U” or nondetect estimated “UJ" based on accuracy criteria for Subarea 8 North samples:

- Eight hundred and four metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results

- Thirty-four PCB/PCT results; six VOC results; seven SVOC results; 65 SVOC SIM results and one energetics result were qualified as estimated based on calibration criteria

- One metal result; ten TPH/glycol results; one PCB/PCT result; seven VOC results; 98 SVOC results; three SVOC SIM and three formaldehyde results were qualified as estimated based on LCS percent recovery criteria

- Five dioxin results; five NDMA results; 146 fluoride/nitrate results; 1,136 metal analyte results; six hexavalent chromium result; 17 mercury results; two alcohol/terphenyl results; 25 TPH/glycol results; three VOC results; 28 SVOC results; five SVOC SIM results; and 12 energetic results were qualified as estimated based on MS percent recovery criteria

- Four NDMA results; nine alcohol/terphenyl results; 15 PCB/PCT results; 24 VOC SIM results and three formaldehyde results were qualified as estimated based on surrogate recovery criteria

The following individual analyte results were qualified as nondetect "U" or nondetect estimated "UJ" based on accuracy criteria for Subarea 8 South samples:

- Two hundred and sixty-four metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results

- One metal result; six PCB/PCT results; 53 herbicide results and 16 SVOC results were qualified as estimated based on LCS percent recovery criteria

- Twenty-six fluoride/nitrate results; 347 metal analyte results; two pesticide results; six herbicide results; 24 SVOC results and one SVOC SIM result were qualified as estimated based on MS percent recovery criteria

- Nine pesticide results; 17 PCB/PCT results and 39 SVOC SIM results were qualified as estimated based on surrogate recovery criteria

The following individual analyte results were rejected "R" based on accuracy criteria for the Subarea 8 North samples:

- Four SVOC results (benzidine) based on MS accuracy

The following individual analyte results were rejected "R" based on accuracy criteria for the Subarea 8 South samples:

- Two pesticide results (one endosulfan sulfate result and one endrin ketone result) based on MS accuracy

- Twenty-four herbicide results (two dalapon results; one dicamba result and 21 dinoseb results) based on MS accuracy and LCS accuracy

- Five SVOC results (three benzidine results; one 2,4-dinitrophenol result and one benzoic acid result) based on MS accuracy

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation, holding times and handling criteria were met except for one dioxin result and three formaldehyde results for the Subarea 8 North samples and 168 pesticide results (8 samples) for the Subarea 8 South samples. These results were qualified as estimated "J/UJ."

Sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions. Results that have been rejected are not usable.

C.7.3 Blank Contamination

Field blanks (e.g., equipment and trip) and laboratory method blanks are analyzed to identify possible sources of contamination. Contamination of a sample can be introduced by field sample collection methods, sample handling, preparation, and/or analysis. The laboratory validation reports in this appendix and summarized below discuss the results qualified based on field and laboratory blank contamination.

The following individual analyte results were qualified as nondetect "U" based on blank contamination for the Subarea 8 North samples:

- 1,690 dioxin results (51%); 9 NDMA results (9.47%); 220 metal results (3.81%); ten hexavalent chromium results (5.2%); 19 TPH/glycol result (2%); 84 VOC results (1%); 10 SVOC results (0.1%); and 4 SVOC SIM results (0.08%) were qualified as non-detect due to blank contamination criteria

The following individual analyte results were qualified as estimated "U" based on blank contamination for the Subarea 8 South samples:

- 557 dioxin results (64%); 80 metal results (5.2%); eight mercury results (1.5%) and 17 SVOC SIM results (1.3%) were qualified as non-detect due to blank contamination criteria

The percentage of results qualified as non-detect based on laboratory blank contamination was less than or equal to 10% for all these analyses except for dioxins as shown above.

Estimated detection limits (EDLs) for the dioxins are calculated for each sample. The EDLs for this analysis are very low, reported in ng/kg or parts per trillion, resulting in numerous results qualified as estimated "J" values because they are below the RL. Many of these estimated values have been subsequently qualified as nondetect "U" because the compound was detected in related laboratory blanks. Low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks were well below site-related action levels. Therefore, the resulting qualification of associated

sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

Tables C-2 through C-6 provide a summary of chemicals observed in the equipment and trip blank samples. Twenty-five metal results, one mercury result and 12 SVOC SIM results for the Subarea 8 North samples were qualified due to field blank contamination. The validators applied appropriate qualifiers to samples associated with the blanks. Specific details are provided in the data validation reports in this appendix.

The reported sample results were judged to be usable after validation. In general, all detected concentrations were below the RL indicating field sample collection and equipment decontamination activities were adequately performed.

C.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP (CDM 2011a) for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

C.7.4.1 Representativeness

Representativeness is a qualitative term that expresses the degree to which the sample data accurately and precisely represent the environmental conditions corresponding to the location and depth interval of sample collection. Requirements and procedures for sample collection are designed to maximize sample representativeness.

Representativeness also can be monitored by reviewing field documentation and/or by performing field audits. For this report, a detailed review was performed on the COC forms, field data collection forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM 2011a) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

Field sampling accuracy was attained through strict adherence to the approved WP/FSAP (CDM 2011a) and by using approved standard operating procedures for field data collection. Based on this, the data should represent as near as possible the actual field conditions at the time of sampling.

Representativeness has been achieved by the performed field work and laboratory analyses. The analytical data generated, that have not been rejected, are viewed to be a representative characterization of the project area.

C.7.4.2 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Strict adherence to standard sample collection procedures, analytical detection limits, and analytical methods assures that data from like samples and sample conditions are comparable. This comparability is independent of laboratory personnel, data reviewers, or sampling personnel. Comparability criteria are met for the project if, based on data review, the sample collection and analytical procedures are determined to have been followed, or defined to show that variations did not affect the values reported.

To ensure comparability of data generated for the site, standard sample collection procedures and Department of Toxic Substances Control (DTSC)-approved analytical methods were utilized by CDM Smith. The sample analyses were performed by LLI in Lancaster, Pennsylvania. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated with similar methods.

C.7.4.3 Sensitivity

Sensitivity is related to the ability to compare analytical results with project-specific levels of interest, such as risk-based screening levels or action levels. Analytical detection limits for the various sample analytes should be below the level of interest to allow an effective comparison.

Detection Limits

Each analytical method used during the sampling events was selected because it had potential to achieve RLs established for this project. RLs were established for each analyte in consultation with the laboratory to achieve analytical results at or below regulatory comparison criteria.

The method detection limit (MDL) is defined as the concentration of an analyte that produces a signal with a 99 percent confidence that the concentration is above that of a blank but that that concentration cannot be accurately quantified. A blank is a sample that does not contain measurable concentrations of the analyte of concern. Tested by statistical performance, calibration samples, and LCSs, MDLs represent the best fundamental measurement of instrument sensitivity and the basis for establishing RLs.

The laboratory RL is typically about 3 to 5 times higher than the MDL and is a laboratory-specific number. The actual sample RL is variable based on the sample matrix, moisture content, and other sample-specific factors. When a sample has to be diluted before analysis, either because of matrix problems or to bring the instrument response within the linear dynamic range, the RL is raised by a factor corresponding to the dilution factor.

In reporting environmental sample results, laboratories follow protocols that help ensure that the result reported is at the lowest level and is defensible, taking into

account the ability of the instrument to differentiate a signal generated by the analyte from the background instrument noise, imprecision added to the detection capabilities of the analyte due to the sample processing manipulations (MDLs) and sample matrix affects, and adjustments made to the detection limits based on difficulties encountered in analyzing the sample (dilution factors, etc.).

The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits. If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for Subarea 8 North samples:

- Method 1613B (Dioxins)
  - 2,561 individual analyte results
- Method 1625C (NDMA)
  - 27 individual analyte results
- Method 300 (Fluoride/Nitrate)
  - 26 individual analyte results
- Method 314 (Perchlorate)
  - 1 individual analyte results
- Methods 6010B/6020 (Metals)
  - 804 individual analyte results
- Method 6850 (Perchlorate)
  - 3 individual analyte results
- Method 7199 (Hexavalent Chromium)
  - 99 individual analyte results
- Method 7471A (Mercury)
  - 81 individual analyte results
- Method 8015B (Alcohols and terphenyls)
  - 2 individual analyte results
- Method 8015M (TPHs and glycols)
  - 59 individual analyte results

- Method 8082 (PCBs)
  - 103 individual analyte results

- Method 8260B (VOCs)
  - 46 individual analyte results

- Method 8270C (SVOCs)
  - 135 individual analyte results

- Method 8270C SIM (SVOCs)
  - 483 individual analyte results

- Method 8315A (Formaldehyde)
  - 8 individual analyte results

- Method 9012B (Cyanide)
  - 6 individual analyte results

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for Subarea 8 South samples:

- Method 1613B (Dioxins)
  - 198 individual analyte results

- Method 300 (Fluoride/Nitrate)
  - 7 individual analyte results

- Methods 6010B/6020 (Metals)
  - 171 individual analyte results

- Method 7199 (Hexavalent Chromium)
  - 32 individual analyte results

- Method 7471A (Mercury)
  - 21 individual analyte results

- Method 8081A (Pesticides)
  - 25 individual analyte results

- Method 8082 (PCBs)
  - 21 individual analyte results

- Method 8151A (Herbicides)
  - 7 individual analyte results

- Method 8270C (SVOCs)
  - 14 individual analyte results

- Method 8270C SIM (SVOCs)
  - 89 individual analyte results

As discussed in Section C.7.3, the EDLs for the dioxins are calculated for each sample and are very low resulting in numerous results qualified as estimated "J" values because they are below the RL as indicated above. The qualification of the dioxins results as estimated "J" based on RL criteria does not falsely diminish identification of site-related contaminants.

In general, for the data validated in this report, detection limits for the sample results were low enough to compare to the action levels stated in the WP/FSAP (CDM 2011a). The detection limits for this project are lower than "normal" environmental data analyses. Analytical laboratory methods were modified in order to achieve the lowest practicable RL. Current laboratory instrumentation technology cannot achieve all of these low project RLs, and thus some of the RLs were above project criteria. These results are still considered usable for project decisions.

C.8 Review of Selected Validation Reports

CDM Smith performed a review of 10 percent of the validation reports identified in Table C-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results that were reviewed were verified against the laboratory data packages and determined that validation documents were followed as required.

C.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM 2011a) versus the actual number of samples collected during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see equation B). Acceptable data include both data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

A. $$\%Completeness = Cx\frac{100}{n}$$

Where:

C = actual number of samples collected
n = total number of samples planned

B. $$\%Completeness = Vx\frac{100}{n'}$$

Where:

V = number of measurements judged valid
n' = total number of measurements made

The overall completeness goal for these sampling events was 90 percent for all project data.

A total of 202 Subarea 8 North and 54 Subarea 8 South soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.7 of the TM, 102 locations were to be sampled in Subarea 8 North and 24 locations in Subarea 8 South. Some locations required only a subsurface sample while other locations required both a surface and subsurface sample. The number of subsurface samples to be collected at each location is not pre-determined because the total depth of each boring varies depending on the local geology. Hence, the completeness calculation defined in Equation A above is more accurately reflected by identifying whether all the locations were sampled at versus the actual number of samples collected since that is not pre-determined. Of all the locations indicated for collection in Subareas 8 North and 8 South, only one location in Subarea 8 North was not collected due to archeology significance, as cited in Table 2.1 and stated in Section 2.7. The remaining deviations from the proposed sample collection for Subareas 8 North and 8 South were due to shallow refusal on bedrock. For all of these locations, a surface sample was successfully collected.

As discussed in Section 2.7, the sampling deviations do not impact completeness objectives for this sampling event. As the sampling program progresses, it may be determined during the Phase 3 Data Gap Investigation that Phase 1 locations not affected by archeological findings that were not sampled, or methods were inadvertently left off of the CoCs (pesticides and herbicides for the Subarea 8 North samples) may be sampled during Phase 3 sampling. Ninety-nine percent of the sample locations identified in the WP/FSAP Addendum were collected meeting the completeness goal for the number of locations sampled versus number of locations planned to be sampled.

The completeness goal for acceptable data achieved was 99.9 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 8 North and 99.6 percent for Subarea 8 South samples analyzed. Tables C-9 and C-10, Completeness Calculation Summary, show a summary of the results that were estimated or rejected.

The following Subarea 8 North individual analyte results were rejected per analyses:

- Method 8270C
  - 5 individual SVOC analyte results out of 9250 results (0.01%)

The following Subarea 8 South individual analyte results were rejected per analyses:

- Method 8081A
  - 2 individual pesticide analyte results out of 441 results (0.45%)

- Method 8151A
  - 24 individual herbicide analyte results out of 210 results (11%)
- Method 8270C
  - 5 individual SVOC analyte results out of 2413 results (0.21%)

The completeness goals for both the number of samples collected and the number of measurements judged to be valid were met.

Sampling deviations from that described in the WP/FSAP (CDM Smith 2011a) are discussed in Section 2.7 of the TM. Deviations did not impact DQOs for this sampling event. The data reported, and not rejected, are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM 2011a) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated on which to base project decisions.

C.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

Over 99 percent of the data validated and reported for Subarea 8 North and Subarea 8 South are suitable for their intended use for site characterization. Sample results that were rejected are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. The detection limits reported generally met the expected limits proposed by the analytical laboratory in their contract agreement with CDM Smith.

Sample results that were qualified as estimated are usable for project decisions. Numerous dioxin results were qualified as estimated and/or non-detect due to the low detection limits. This data is considered usable.

Field duplicate precision also met criteria a majority of the time. RPDs were outside criteria predominantly when the sample results were close to the RL and/or below the project required action limits. Decisions based on results close to the RL should be made with a degree of caution. The achievement of the completeness goals for number of samples collected, and the number of sample results acceptable for use provides sufficient quality data to support project decisions.

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Table C-1 Sample Delivery Groups and Validation Levels for Subarea 8 North and 8 South

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
8 North		
DE124	Level III	
DE125	Level IV	
DE126	Level III	
DE127	Level III	
DE129	Level III	
DE130	Level IV	
DE131	Level III	
DE132	Level III	
DE134	Level IV	Yes
DE135	Level III	
DE136	Level III	
DE137	Level III	
DE138	Level III	
DE139	Level III	
DE140	Level III	
DE141	Level III	
DE142	Level III	
DE143	Level III	
DE144	Level III	Yes
DE145	Level III	
DE146	Level III	
DE147	Level III	
DE148	Level III	
DE149	Level III	
DE150	Level III	
DE165	Level III	
DE166	Level III	
DE167	Level III	
DE174	Level III	
DE175	Level III	Yes
DE176	Level IV	
DE177	Level III	
DE178	Level III	
DE183	Level III	
DX068	Level III	
DX069	Level III	
DX070	Level III	
DX071	Level III	
DX072	Level IV	Yes
DX073	Level III	
DX074	Level III	
DX076	Level III	
DX077	Level III	
DX078	Level IV	
DX079	Level III	
DX080	Level III	
DX081	Level III	
DX091	Level III	Yes
DX093	Level III	
DX094	Level III	

Table C-1 Sample Delivery Groups and Validation Levels for Subarea 8 North and 8 South

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
8 North (cont.)		
DX099	Level III	
DX100	Level IV	
DX101	Level III	
DX103	Level III	
Sample Delivery Group	**Level of Validation Performed**	**CDM Smith Review**
8 South		
DE258	Level III	
DE259	Level III	
DE273	Level III	
DE277	Level III	
DE286	Level III	
DE287	Level III	Yes
DE288	Level III	
DE289	Level III	
DE291	Level III	
DE292	Level III	
DX145	Level III	
DX146	Level III	
DX147	Level IV	Yes
DX150	Level III	
DX152	Level III	
DX155	Level III	
DX156	Level III	
DX157	Level IV	

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB01-SA8N-041211		EB02-SA8N-SS-041311		EB04-SA8N-SS-041411		EB05-SA8N-SB-042811		EB05-SA8N-SS-041811		EB06-SA8N-SS-041911		EB07-SA8N-SS-042011		EB08-SA8N-SB-050311		EB09-SA8N-SB-051011	
Sample Date:		04/12/2011		04/13/2011		04/14/2011		04/28/2011		04/18/2011		04/19/2011		04/20/2011		05/03/2011		05/10/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l							5	U							5	U	5	U
1,1,1-Trichloroethane	ug/l							5	U							5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l							5	U							5	U	5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l							10	U							10	U	10	U
1,1,2-Trichloroethane	ug/l							5	U							5	U	5	U
1,1-Dichloroethane	ug/l							5	U							5	U	5	U
1,1-Dichloroethene	ug/l							5	U							5	U	5	U
1,1-Dichloropropene	ug/l							5	U							5	U	5	U
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	pg/l	20.9	U	20.3	U			21.1	U	19.8	U	20.1	U	19.5	U	20.7	U	20.6	U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	pg/l	20.9	U	20.3	U			21.1	U	19.8	U	20.1	U	19.5	U	20.7	U	20.6	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,4,7,8-Hexachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,6,7,8-Hexachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,7,8,9-Hexachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	0.596	J	10.4	U	10.3	U
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
1,2,3,7,8-Pentachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	0.148	J
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	0.389	J	10.4	U	10.3	U
1,2,3-Trichlorobenzene	ug/l							5	U							5	U	5	U
1,2,3-Trichloropropane	ug/l							5	U							5	U	5	U
1,2,4-Trimethylbenzene	ug/l							5	U							5	U	5	U
1,2-Dibromo-3-chloropropane	ug/l							5	U							5	U	5	U
1,2-Dibromoethane	ug/l							5	U							5	U	5	U
1,2-Dichloroethane	ug/l							5	U							5	U	5	U
1,2-Dichloropropane	ug/l							5	U							5	U	5	U
1,2-Diphenylhydrazine	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	ug/l							5	U							5	U	5	U
1,3,5-Trinitrobenzene	ug/l					0.6	U			0.6	U	0.6	U						
1,3-Dichloropropane	ug/l							5	U							5	U	5	U
1,4-Dioxane	ug/l							2	U							2	U	2	U
1-Methylnaphthalene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
2,2-Dichloropropane	ug/l							5	U							5	U	5	U
2,3,4,6,7,8-Hexachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
2,3,4,7,8-Pentachlorodibenzofuran	pg/l	10.4	U	10.1	U			10.6	U	9.88	U	10.1	U	9.76	U	10.4	U	10.3	U
2,3,7,8-Tetrachlorodibenzofuran	pg/l	2.09	U	2.03	U			2.11	U	1.98	U	2.01	U	1.95	U	2.07	U	2.06	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/l	2.09	U	2.03	U			2.11	U	1.98	U	2.01	U	1.95	U	2.07	U	2.06	U
2,4,5-Trichlorophenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2,4,6-Trinitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
2,4-Diamino-6-nitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
2,4-Dichlorophenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	ug/l	10	U	10	U			10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	ug/l	31	U	31	U			31	U	29	U	29	U	31	U	31	U	31	U
2,6-Diamino-4-nitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
2-Amino-4,6-Dinitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
2-Butanone	ug/l							10	U							10	U	10	U
2-Chloroethyl Vinyl Ether	ug/l							10	U							10	U	10	U
2-Chloronaphthalene	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorotoluene	ug/l							5	U							5	U	5	U
2-Hexanone	ug/l							10	U							10	U	10	U
2-Methylnaphthalene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	UJ			0.05	U
2-Methylphenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
2-Propanol	ug/l					1000	U			1000	U	1000	U						
3,3`-Dichlorobenzidine	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
3,5-Dimethylphenol	ug/l	10	U	10	U			10	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
3-Nitrotoluene	ug/l					1.2	U			1.2	U	1.2	U						
4,6-Dinitro-2-Methylphenol	ug/l	15	U	15	U			16	U	15	U	15	U	16	U	16	U	15	U
4-Amino-2,6-Dinitrotoluene	ug/l					0.6	U			0.6	U	0.6	U						
4-Bromophenyl Phenyl Ether	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-Methylphenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenylether	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorotoluene	ug/l							5	U							5	U	5	U
4-Methyl-2-Pentanone	ug/l							10	U							10	U	10	U
4-Methylphenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
4-Nitrophenol	ug/l	31	U	31	U			31	U	29	U	29	U	31	U	31	UJ	31	U
4-Nitrotoluene	ug/l					1.2	U			1.2	U	1.2	U						
Acenaphthene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Acenaphthylene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Acetone	ug/l							20	U							20	U	20	U
Aluminum	mg/l	0.2	U	0.2	U			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Aniline	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB01-SA8N-041211		EB02-SA8N-SS-041311		EB04-SA8N-SS-041411		EB05-SA8N-SB-042811		EB05-SA8N-SS-041811		EB06-SA8N-SS-041911		EB07-SA8N-SS-042011		EB08-SA8N-SB-050311		EB09-SA8N-SB-051011	
Sample Date:		04/12/2011		04/13/2011		04/14/2011		04/28/2011		04/18/2011		04/19/2011		04/20/2011		05/03/2011		05/10/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Anthracene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Antimony	mg/l	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Aroclor 1016	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1221	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1232	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1242	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1248	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1254	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1260	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1262	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 1268	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 5432	ug/l	0.48	U	0.49	U			0.5	U	0.49	UJ	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 5442	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Aroclor 5460	ug/l	0.48	U	0.49	U			0.5	U	0.49	U	0.49	U	0.52	U	0.5	U	0.52	U
Arsenic	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Barium	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Benzene	ug/l							5	U							5	U	5	U
Benzidine	ug/l	62	U	61	U			62	U	59	U	58	U	62	U	62	U	62	U
Benzo(a)anthracene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Benzo(a)pyrene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Benzo(b)fluoranthene	ug/l	0.053	UJ	0.051	U			0.049	U	0.096	UJ	0.052	U	0.05	U			0.05	U
Benzo(g,h,i)perylene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Benzo(k)fluoranthene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Benzoic Acid	ug/l	15	U	15	U			16	U	15	UJ	15	UJ	16	UJ	16	UJ	15	U
Benzyl Alcohol	ug/l	15	U	15	U			16	U	15	U	15	U	16	U	16	U	15	U
Beryllium	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Bis(2-Chloroethoxy) methane	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) ether	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroisopropyl) ether	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-Ethylhexyl) phthalate	ug/l	4.9		3.2				0.98	U	0.72	J	0.13	J	0.16	J			1	U
Boron	mg/l	0.05	U	0.05	U			0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Bromobenzene	ug/l							5	U							5	U	5	U
Bromochloromethane	ug/l							5	U							5	U	5	U
Bromodichloromethane	ug/l							5	U							5	U	5	U
Bromoform	ug/l							5	U							5	U	5	U
Bromomethane	ug/l							5	U							5	U	5	U
Butylbenzylphthalate	ug/l	1.1	U	1	U			0.98	U	0.33	J	1	U	0.99	U			1	U
Cadmium	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Calcium	mg/l	0.2	U	0.2	U			0.2	U	0.0949	J	0.0796	J	0.08	J	0.2	U	0.2	U
Carbazole	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/l							5	U							5	U	5	U
Chlorobenzene	ug/l							5	U							5	U	5	U
Chloroethane	ug/l							5	U							5	U	5	U
Chloroform	ug/l							5	U							5	U	5	U
Chloromethane	ug/l							5	U							5	U	5	U
Chlorotrifluoroethene	ug/l							5	U							5	U	5	U
Chromium	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chromium (Hexavalent Compounds)	ug/l	10	U	10	U			10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
cis-1,2-Dichloroethene	ug/l							5	U							5	U	5	U
cis-1,3-Dichloropropene	ug/l							5	U							5	U	5	U
Cobalt	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Copper	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Cyanide	mg/l					0.01	U			0.01	U	0.01	U						
Dibenzo(a,h)anthracene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Dibenzofuran	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	ug/l							5	U							5	U	5	U
Dibromomethane	ug/l							5	U							5	U	5	U
Dichlorodifluoromethane	ug/l							5	U							5	U	5	U
Diethylene Glycol	mg/l			100	U	100	U			100	U	100	U			100	U		
Diethylphthalate	ug/l	0.13	J	0.13	J			0.98	U	1.9	U	0.057	J	0.074	J			0.12	J
Dimethylphthalate	ug/l	1.1	U	1	U			0.98	U	1.9	U	1	U	0.99	U			1	U
Di-N-Butylphthalate	ug/l	0.51	J	0.53	J			0.98	U	0.37	J	0.3	J	0.31	J			1	U
Di-N-Octyl Phthalate	ug/l	4.7	J	3	J			0.98	U	0.52	J	0.25	J	0.99	U			1	U
EFH (C15-C20)	mg/l					0.62	U			0.6	U	0.61	U						
EFH (C21-C30)	mg/l					0.62	U			0.6	U	0.61	U						
EFH (C30-C40)	mg/l					0.62	U			0.6	U	0.61	U						
EFH (C8-C11)	mg/l					0.62	U			0.6	U	0.61	U						
Ethanol	ug/l					1000	U			1000	U	1000	U						
Ethylbenzene	ug/l							5	U							5	U	5	U
Ethylene Glycol	mg/l			100	UJ	100	U			100	U	100	U			100	U		
Fluoranthene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Fluorene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Fluoride	mg/l	0.1	U	0.1	U			0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Formaldehyde	ug/l					50	U			50	U	15	J						
Freon 113a	ug/l							5	U							5	U	5	U
Gasoline Range Organices (C5-C12)	ug/l																		
Hexachlorobenzene	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	ug/l	15	U	15	U			16	U	15	U	15	U	16	U	16	U	15	U
Hexachloroethane	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-Cd)Pyrene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB01-SA8N-041211		EB02-SA8N-SS-041311		EB04-SA8N-SS-041411		EB05-SA8N-SB-042811		EB05-SA8N-SS-041811		EB06-SA8N-SS-041911		EB07-SA8N-SS-042011		EB08-SA8N-SB-050311		EB09-SA8N-SB-051011	
Sample Date:		04/12/2011		04/13/2011		04/14/2011		04/28/2011		04/18/2011		04/19/2011		04/20/2011		05/03/2011		05/10/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Iron	mg/l	0.2	U	0.2	U			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Isophorone	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	ug/l							5	U							5	U	5	U
Isopropyltoluene	ug/l							5	U							5	U	5	U
Lead	mg/l	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Lithium	mg/l	0.02	U	0.02	U			0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
m,p-Xylene	ug/l							5	U							5	U	5	U
Magnesium	mg/l	0.1	U	0.1	U			0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Manganese	mg/l	0.005	U	0.005	U			0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
m-Dinitrobenzene	ug/l					0.6	U			0.6	U	0.6	U						
Mercury	mg/l	0.0002	U	0.0002	U			0.0002	UJ	0.0002	U	0.0002	U	0.0002	UJ	0.0002	UJ	0.0002	U
Methanol	ug/l					1000	U			1000	U	1000	U						
Methyl tert-Butyl Ether	ug/l							5	U							5	U	5	U
Methylene chloride	ug/l							5	U							5	U	5	U
Molybdenum	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
m-Terphenyl	mg/l					0.27	U			0.25	U	0.25	U						
Naphthalene	ug/l	0.053	U	0.034	J			0.049	U	0.096	U	0.052	U	0.033	J			0.032	J
N-Butylbenzene	ug/l							5	U							5	U	5	U
Nickel	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Nitrate	mg/l					0.1	U			0.1	U	0.1	U						
Nitrate [as N]	mg/l					0.1	U			0.1	U	0.1	U						
Nitroglycerin	ug/l					15	U			15	U	15	U						
N-Nitroso-Di-N-Propylamine	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
N-Nitrosodiphenylamine	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	U	5	U
N-Propylbenzene	ug/l							5	U							5	U	5	U
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	ug/l					2	U			2	U	2	U						
o-Terphenyl	mg/l					0.27	U			0.25	U	0.25	U						
o-Xylene	ug/l							5	U							5	U	5	U
Pentachlorophenol	ug/l	15	U	15	U			16	U	15	U	15	U	16	U	16	U	15	U
Pentaerythritol Tetranitrate	ug/l					18	U			18	U	18	U						
Phenanthrene	ug/l	0.053	U	0.018	J			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
Phenol	ug/l	5	U	5	U			5	U	5	U	5	U	5	U	5	UJ	5	U
Phosphorus	mg/l	0.1	U	0.1	U			0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Potassium	mg/l	0.5	U	0.5	U			0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Propylene glycol	mg/l			100	UJ	100	U			100	U	100	U			100	UJ		
P-TERPHENYL	mg/l					0.27	U			0.25	U	0.25	U						
Pyrene	ug/l	0.053	U	0.051	U			0.049	U	0.096	U	0.052	U	0.05	U			0.05	U
RDX	ug/l					0.6	U			0.6	U	0.6	U						
sec-Butylbenzene	ug/l							5	U							5	U	5	U
Selenium	mg/l	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Silver	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Sodium	mg/l	1	U	1	U			1	U	1	U	1	U	1	U	1	U	1	U
Strontium	mg/l	0.005	U	0.005	U			0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Styrene	ug/l							5	U							5	U	5	U
tert-Butylbenzene	ug/l							5	U							5	U	5	U
Tetrachloroethene	ug/l							5	U							5	U	5	U
Tetryl	ug/l					0.6	UJ			0.6	UJ	0.6	U						
Thallium	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Tin	mg/l	0.02	U	0.02	U			0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Titanium	mg/l	0.01	U	0.01	U			0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Toluene	ug/l							5	U							5	U	5	U
trans-1,2-Dichloroethene	ug/l							5	U							5	U	5	U
trans-1,3-Dichloropropene	ug/l							5	U							5	U	5	U
Trichloroethene	ug/l							5	U							5	U	5	U
Trichlorofluoromethane	ug/l							5	U							5	U	5	U
Vanadium	mg/l	0.0005	U	0.0005	U			0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Vinyl Chloride	ug/l							5	U							5	U	5	U
Zinc	mg/l	0.015	U	0.015	U			0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Zirconium	mg/l	0.05	U	0.05	U			0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB10-SA8N-SB-051111		EB11-SA8N-SB-052611		EB16-SA8N-SB-060811		EB17-SA8N-SB-060911	
Sample Date:		05/11/2011		05/26/2011		06/08/2011		06/09/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l			5	U	5	U		
1,1,1-Trichloroethane	ug/l			5	U	5	U		
1,1,2,2-Tetrachloroethane	ug/l			5	U	5	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l			10	U	10	U		
1,1,2-Trichloroethane	ug/l			5	U	5	U		
1,1-Dichloroethane	ug/l			5	U	5	U		
1,1-Dichloroethene	ug/l			5	U	5	U		
1,1-Dichloropropene	ug/l			5	U	5	U		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	pg/l			20.2	U	20.1	U		
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	pg/l			20.2	U	20.1	U		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	pg/l			10.1	U	10.1	U		
1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,4,7,8-Hexachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	pg/l			10.1	U	10.1	U		
1,2,3,6,7,8-Hexachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	pg/l			10.1	U	10.1	U		
1,2,3,7,8,9-Hexachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/l			10.1	U	10.1	U		
1,2,3,7,8-Pentachlorodibenzofuran	pg/l			10.1	U	10.1	U		
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/l			10.1	U	10.1	U		
1,2,3-Trichlorobenzene	ug/l			5	U	5	U		
1,2,3-Trichloropropane	ug/l			5	U	5	U		
1,2,4-Trimethylbenzene	ug/l			5	U	5	U		
1,2-Dibromo-3-chloropropane	ug/l			5	U	5	U		
1,2-Dibromoethane	ug/l			5	U	5	U		
1,2-Dichloroethane	ug/l			5	U	5	U		
1,2-Dichloropropane	ug/l			5	U	5	U		
1,2-Diphenylhydrazine	ug/l			5	U	5	U		
1,3,5-Trimethylbenzene	ug/l			5	U	5	U		
1,3,5-Trinitrobenzene	ug/l	0.6	U					0.6	U
1,3-Dichloropropane	ug/l			5	U	5	U		
1,4-Dioxane	ug/l			2	U	2	U		
1-Methylnaphthalene	ug/l			0.033	J	0.052	U		
2,2-Dichloropropane	ug/l			5	U	5	U		
2,3,4,6,7,8-Hexachlorodibenzofuran	pg/l			10.1	U	10.1	U		
2,3,4,7,8-Pentachlorodibenzofuran	pg/l			10.1	U	10.1	U		
2,3,7,8-Tetrachlorodibenzofuran	pg/l			2.02	U	2.01	U		
2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/l			2.02	U	2.01	U		
2,4,5-Trichlorophenol	ug/l			5	U	5	U		
2,4,6-Trichlorophenol	ug/l			5	U	5	U		
2,4,6-Trinitrotoluene	ug/l	0.6	U					0.6	U
2,4-Diamino-6-nitrotoluene	ug/l	0.6	U					0.6	U
2,4-Dichlorophenol	ug/l			5	U	5	U		
2,4-Dimethylphenol	ug/l			10	U	10	U		
2,4-Dinitrophenol	ug/l			31	U	30	U		
2,6-Diamino-4-nitrotoluene	ug/l	0.6	U					0.6	U
2-Amino-4,6-Dinitrotoluene	ug/l	0.6	U					0.6	U
2-Butanone	ug/l			10	U	10	U		
2-Chloroethyl Vinyl Ether	ug/l			10	U	10	U		
2-Chloronaphthalene	ug/l			5	U	5	U		
2-Chlorophenol	ug/l			5	U	5	U		
2-Chlorotoluene	ug/l			5	U	5	U		
2-Hexanone	ug/l			10	U	10	U		
2-Methylnaphthalene	ug/l			0.034	J	0.052	U		
2-Methylphenol	ug/l			5	U	5	U		
2-Nitroaniline	ug/l			5	U	5	UJ		
2-Nitrophenol	ug/l			5	U	5	U		
2-Nitrotoluene	ug/l	0.6	U					0.6	U
2-Propanol	ug/l	1000	U					1000	U
3,3`-Dichlorobenzidine	ug/l			5	U	5	U		
3,5-Dimethylphenol	ug/l			10	U	10	U		
3-Nitroaniline	ug/l			5	U	5	U		
3-Nitrotoluene	ug/l	1.2	U					1.2	U
4,6-Dinitro-2-Methylphenol	ug/l			15	U	15	U		
4-Amino-2,6-Dinitrotoluene	ug/l	0.6	U					0.6	U
4-Bromophenyl Phenyl Ether	ug/l			5	U	5	U		
4-Chloro-3-Methylphenol	ug/l			5	U	5	U		
4-Chloroaniline	ug/l			5	U	5	U		
4-Chlorophenyl Phenylether	ug/l			5	U	5	U		
4-Chlorotoluene	ug/l			5	U	5	U		
4-Methyl-2-Pentanone	ug/l			10	U	10	U		
4-Methylphenol	ug/l			5	U	5	U		
4-Nitroaniline	ug/l			5	U	5	U		
4-Nitrophenol	ug/l			31	U	30	U		
4-Nitrotoluene	ug/l	1.2	U					1.2	U
Acenaphthene	ug/l			0.048	U	0.052	U		
Acenaphthylene	ug/l			0.048	U	0.052	U		
Acetone	ug/l			20	U	20	U		
Aluminum	mg/l			0.2	U	0.2	U		
Aniline	ug/l			5	U	5	U		

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB10-SA8N-SB-051111		EB11-SA8N-SB-052611		EB16-SA8N-SB-060811		EB17-SA8N-SB-060911	
Sample Date:		05/11/2011		05/26/2011		06/08/2011		06/09/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Anthracene	ug/l			0.048	U	0.052	U		
Antimony	mg/l			0.001	U	0.001	U		
Aroclor 1016	ug/l			0.55	U	0.5	U		
Aroclor 1221	ug/l			0.55	U	0.5	U		
Aroclor 1232	ug/l			0.55	U	0.5	U		
Aroclor 1242	ug/l			0.55	U	0.5	U		
Aroclor 1248	ug/l			0.55	U	0.5	U		
Aroclor 1254	ug/l			0.55	U	0.5	U		
Aroclor 1260	ug/l			0.55	U	0.5	U		
Aroclor 1262	ug/l			0.55	U	0.5	U		
Aroclor 1268	ug/l			0.55	U	0.5	U		
Aroclor 5432	ug/l			0.55	U	0.5	U		
Aroclor 5442	ug/l			0.55	U	0.5	U		
Aroclor 5460	ug/l			0.55	U	0.5	U		
Arsenic	mg/l			0.002	U	0.002	U		
Barium	mg/l			0.002	U	0.002	U		
Benzene	ug/l			1	J	5	U		
Benzidine	ug/l			62	U	60	U		
Benzo(a)anthracene	ug/l			0.048	U	0.052	U		
Benzo(a)pyrene	ug/l			0.048	U	0.052	U		
Benzo(b)fluoranthene	ug/l			0.048	U	0.052	U		
Benzo(g,h,i)perylene	ug/l			0.048	U	0.052	U		
Benzo(k)fluoranthene	ug/l			0.048	U	0.052	U		
Benzoic Acid	ug/l			15	UJ	15	U		
Benzyl Alcohol	ug/l			15	U	15	U		
Beryllium	mg/l			0.0005	U	0.0005	U		
Bis(2-Chloroethoxy) methane	ug/l			5	U	5	U		
Bis(2-Chloroethyl) ether	ug/l			5	U	5	U		
bis(2-Chloroisopropyl) ether	ug/l			5	U	5	U		
Bis(2-Ethylhexyl) phthalate	ug/l			0.97	U	1	U		
Boron	mg/l			0.05	U	0.05	U		
Bromobenzene	ug/l			5	U	5	U		
Bromochloromethane	ug/l			5	U	5	U		
Bromodichloromethane	ug/l			5	U	5	U		
Bromoform	ug/l			5	U	5	U		
Bromomethane	ug/l			5	U	5	U		
Butylbenzylphthalate	ug/l			0.97	U	1	U		
Cadmium	mg/l			0.0005	U	0.0005	U		
Calcium	mg/l			0.2	U	0.2	U		
Carbazole	ug/l			5	U	5	U		
Carbon tetrachloride	ug/l			5	U	5	U		
Chlorobenzene	ug/l			5	U	5	U		
Chloroethane	ug/l			5	U	5	U		
Chloroform	ug/l			5	U	5	U		
Chloromethane	ug/l			5	U	5	U		
Chlorotrifluoroethene	ug/l			5	U	5	U		
Chromium	mg/l			0.002	U	0.002	U		
Chromium (Hexavalent Compounds)	ug/l			10	U	10	UJ		
Chrysene	ug/l			0.048	U	0.052	U		
cis-1,2-Dichloroethene	ug/l			5	U	5	U		
cis-1,3-Dichloropropene	ug/l			5	U	5	U		
Cobalt	mg/l			0.0005	U	0.0005	U		
Copper	mg/l			0.002	U	0.002	U		
Cyanide	mg/l	0.01	U					0.01	U
Dibenzo(a,h)anthracene	ug/l			0.048	U	0.052	U		
Dibenzofuran	ug/l			5	U	5	U		
Dibromochloromethane	ug/l			5	U	5	U		
Dibromomethane	ug/l			5	U	5	U		
Dichlorodifluoromethane	ug/l			5	U	5	U		
Diethylene Glycol	mg/l	100	U					100	U
Diethylphthalate	ug/l			0.97	U	0.3	J		
Dimethylphthalate	ug/l			0.97	U	1	U		
Di-N-Butylphthalate	ug/l			0.065	J	0.71	J		
Di-N-Octyl Phthalate	ug/l			0.97	U	1	U		
EFH (C15-C20)	mg/l	0.65	U					0.6	U
EFH (C21-C30)	mg/l	0.65	U					0.6	U
EFH (C30-C40)	mg/l	0.65	U					0.6	U
EFH (C8-C11)	mg/l	0.65	U					0.6	UJ
Ethanol	ug/l	1000	U					1000	U
Ethylbenzene	ug/l			5	U	5	U		
Ethylene Glycol	mg/l	100	U					100	U
Fluoranthene	ug/l			0.048	U	0.052	U		
Fluorene	ug/l			0.048	U	0.052	U		
Fluoride	mg/l			0.1	U	0.1	U		
Formaldehyde	ug/l	50	U					50	U
Freon 113a	ug/l			5	U	5	U		
Gasoline Range Organices (C5-C12)	ug/l	50	U					50	U
Hexachlorobenzene	ug/l			5	U	5	U		
Hexachlorocyclopentadiene	ug/l			15	U	15	U		
Hexachloroethane	ug/l			5	U	5	U		
Indeno(1,2,3-Cd)Pyrene	ug/l			0.048	U	0.052	U		

Table C-2 - Subarea 8N Equipment Rinsate Blank Results

Sample Name:		EB10-SA8N-SB-051111		EB11-SA8N-SB-052611		EB16-SA8N-SB-060811		EB17-SA8N-SB-060911	
Sample Date:		05/11/2011		05/26/2011		06/08/2011		06/09/2011	
Sample Type		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Iron	mg/l			0.2	U	0.2	U		
Isophorone	ug/l			5	U	5	U		
Isopropylbenzene	ug/l			5	U	5	U		
Isopropyltoluene	ug/l			5	U	5	U		
Lead	mg/l			0.001	U	0.000066	J		
Lithium	mg/l			0.02	U	0.02	U		
m,p-Xylene	ug/l			5	U	5	U		
Magnesium	mg/l			0.1	U	0.1	U		
Manganese	mg/l			0.005	U	0.005	U		
m-Dinitrobenzene	ug/l	0.6	U					0.6	U
Mercury	mg/l			0.0002	UJ	0.0002	U		
Methanol	ug/l	1000	U					1000	U
Methyl tert-Butyl Ether	ug/l			5	U	5	U		
Methylene chloride	ug/l			5	U	5	U		
Molybdenum	mg/l			0.0005	U	0.0005	U		
m-Terphenyl	mg/l	0.26	U					0.26	U
Naphthalene	ug/l			0.25		0.06	J		
N-Butylbenzene	ug/l			5	U	5	U		
Nickel	mg/l			0.002	U	0.002	U		
Nitrate	mg/l	0.1	U					0.1	U
Nitrate [as N]	mg/l	0.1	U					0.1	U
Nitroglycerin	ug/l	15	U					15	U
N-Nitroso-Di-N-Propylamine	ug/l			5	U	5	U		
N-Nitrosodiphenylamine	ug/l			5	U	5	U		
N-Propylbenzene	ug/l			5	U	5	U		
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	ug/l	2	U					2	U
o-Terphenyl	mg/l	0.26	U					0.26	U
o-Xylene	ug/l			5	U	5	U		
Pentachlorophenol	ug/l			15	U	15	U		
Pentaerythritol Tetranitrate	ug/l	18	U					18	U
Phenanthrene	ug/l			0.048	U	0.052	U		
Phenol	ug/l			5	U	5	U		
Phosphorus	mg/l			0.1	U	0.1	U		
Potassium	mg/l			0.5	U	0.5	U		
Propylene glycol	mg/l	100	U					100	U
P-TERPHENYL	mg/l	0.26	U					0.26	U
Pyrene	ug/l			0.048	U	0.052	U		
RDX	ug/l	0.61						0.43	J
sec-Butylbenzene	ug/l			5	U	5	U		
Selenium	mg/l			0.002	U	0.002	U		
Silver	mg/l			0.0005	U	0.0005	U		
Sodium	mg/l			1	U	1	U		
Strontium	mg/l			0.005	U	0.005	U		
Styrene	ug/l			5	U	5	U		
tert-Butylbenzene	ug/l			5	U	5	U		
Tetrachloroethene	ug/l			5	U	5	U		
Tetryl	ug/l	0.6	U					0.6	U
Thallium	mg/l			0.0005	U	0.0005	U		
Tin	mg/l			0.02	U	0.02	U		
Titanium	mg/l			0.01	U	0.01	U		
Toluene	ug/l			0.7	J	5	U		
trans-1,2-Dichloroethene	ug/l			5	U	5	U		
trans-1,3-Dichloropropene	ug/l			5	U	5	U		
Trichloroethene	ug/l			5	U	5	U		
Trichlorofluoromethane	ug/l			5	U	5	U		
Vanadium	mg/l			0.0005	U	0.0005	U		
Vinyl Chloride	ug/l			5	U	5	U		
Zinc	mg/l			0.015	U	0.015	U		
Zirconium	mg/l			0.05	U	0.05	U		

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 8S Equipment Rinsate Blank Results

	Sample Name:	EB-SA8S-SB-111711	
	Sample Date:	11/17/2011	
	Sample Type	Equipment Blank	
Analyte	Units	Concentration	Final Qualifer
1,2,3,4,6,7,8-HpCDD	pg/l	10.5	U
1,2,3,4,6,7,8-HpCDF	pg/l	10.5	U
1,2,3,4,7,8,9-HpCDF	pg/l	10.5	U
1,2,3,4,7,8-HxCDD	pg/l	10.5	U
1,2,3,4,7,8-HxCDF	pg/l	10.5	U
1,2,3,6,7,8-HxCDD	pg/l	10.5	U
1,2,3,6,7,8-HxCDF	pg/l	10.5	U
1,2,3,7,8,9-HxCDD	pg/l	10.5	U
1,2,3,7,8,9-HxCDF	pg/l	0.276	J
1,2,3,7,8-PeCDD	pg/l	0.347	J
1,2,3,7,8-PeCDF	pg/l	10.5	U
1,2,4-Trichlorobenzene	ug/l	6	U
1,2-Dichlorobenzene	ug/l	6	U
1,2-Diphenylhydrazine	ug/l	6	U
1,3-Dichlorobenzene	ug/l	6	U
1,4-Dichlorobenzene	ug/l	6	U
1-Methylnaphthalene	ug/l	0.053	U
2,3,4,6,7,8-HxCDF	pg/l	10.5	U
2,3,4,7,8-PeCDF	pg/l	10.5	U
2,3,7,8-TCDD	pg/l	2.09	U
2,3,7,8-TCDF	pg/l	2.09	U
2,4,5-Trichlorophenol	ug/l	6	U
2,4,6-Trichlorophenol	ug/l	6	U
2,4-Dichlorophenol	ug/l	6	U
2,4-Dimethylphenol	ug/l	11	U
2,4-Dinitrophenol	ug/l	33	U
2,4-Dinitrotoluene	ug/l	6	U
2,6-Dinitrotoluene	ug/l	6	U
2-Chloronaphthalene	ug/l	6	U
2-Chlorophenol	ug/l	6	U
2-Methylnaphthalene	ug/l	0.012	J
2-Methylphenol	ug/l	6	U
2-Nitroaniline	ug/l	6	U
2-Nitrophenol	ug/l	6	U
3,3`-Dichlorobenzidine	ug/l	6	U
3,5-Dimethylphenol	ug/l	11	U
3-Nitroaniline	ug/l	6	U
4,6-Dinitro-2-Methylphenol	ug/l	17	U
4-Bromophenyl Phenyl Ether	ug/l	6	U
4-Chloro-3-Methylphenol	ug/l	6	U
4-Chloroaniline	ug/l	6	U
4-Chlorophenyl Phenylether	ug/l	6	U
4-Methylphenol	ug/l	6	U
4-Nitroaniline	ug/l	6	U
4-Nitrophenol	ug/l	33	U
Acenaphthene	ug/l	0.053	U
Acenaphthylene	ug/l	0.053	U
Aluminum	mg/l	0.200	U
Aniline	ug/l	6	U
Anthracene	ug/l	0.053	U
Antimony	mg/l	0.0010	U
Aroclor 1016	ug/l	0.51	U
Aroclor 1221	ug/l	0.51	U
Aroclor 1232	ug/l	0.51	U
Aroclor 1242	ug/l	0.51	U
Aroclor 1248	ug/l	0.51	U
Aroclor 1254	ug/l	0.51	U
Aroclor 1260	ug/l	0.51	U
Aroclor 1262	ug/l	0.51	U
Aroclor 1268	ug/l	0.51	U
Aroclor 5432	ug/l	0.51	U
Aroclor 5442	ug/l	0.51	U
Aroclor 5460	ug/l	0.51	U
Arsenic	mg/l	0.0020	U
Barium	mg/l	0.0020	U
Benzidine	ug/l	66	U
Benzo(a)anthracene	ug/l	0.053	U
Benzo(a)pyrene	ug/l	0.053	U
Benzo(b)fluoranthene	ug/l	0.053	U
Benzo(g,h,i)perylene	ug/l	0.053	U
Benzo(k)fluoranthene	ug/l	0.053	U
Benzoic Acid	ug/l	17	U
Benzyl Alcohol	ug/l	17	U
Beryllium	mg/l	0.00050	U
Bis(2-Chloroethoxy) methane	ug/l	6	U
Bis(2-Chloroethyl) ether	ug/l	6	U

Table C-3 - Subarea 8S Equipment Rinsate Blank Results

Sample Name:		EB-SA8S-SB-111711	
Sample Date:		11/17/2011	
Sample Type		Equipment Blank	
Analyte	Units	Concentration	Final Qualifer
bis(2-Chloroisopropyl) ether	ug/l	6	U
Bis(2-Ethylhexyl) phthalate	ug/l	1.1	U
Boron	mg/l	0.0500	U
Butylbenzylphthalate	ug/l	1.1	U
Cadmium	mg/l	0.00050	U
Calcium	mg/l	0.200	U
Carbazole	ug/l	6	U
Chromium	mg/l	0.0020	U
Chromium VI	ug/l	10.0	U
Chrysene	ug/l	0.053	U
Cobalt	mg/l	0.00050	U
Copper	mg/l	0.0020	U
Dibenzo(a,h)anthracene	ug/l	0.053	U
Dibenzofuran	ug/l	6	U
Diethylphthalate	ug/l	0.066	J
Dimethylphthalate	ug/l	1.1	U
Di-n-Butylphthalate	ug/l	0.31	J
Di-N-Octyl Phthalate	ug/l	0.084	J
Fluoranthene	ug/l	0.053	U
Fluorene	ug/l	0.053	U
Fluoride	mg/l	0.10	U
Hexachlorobenzene	ug/l	6	U
Hexachlorobutadiene	ug/l	6	U
Hexachlorocyclopentadiene	ug/l	17	U
Hexachloroethane	ug/l	6	U
Indeno(1,2,3-Cd)Pyrene	ug/l	0.053	U
Iron	mg/l	0.200	U
Isophorone	ug/l	6	U
Lead	mg/l	0.0010	U
Lithium	mg/l	0.0200	U
Magnesium	mg/l	0.100	U
Manganese	mg/l	0.0050	U
Mercury	mg/l	0.00020	U
Molybdenum	mg/l	0.00050	U
Naphthalene	ug/l	0.066	
Nickel	mg/l	0.0020	U
Nitrobenzene	ug/l	6	U
N-Nitrosodimethylamine	ug/l	0.053	U
N-Nitroso-Di-N-Propylamine	ug/l	6	U
N-Nitrosodiphenylamine	ug/l	6	U
OCDD	pg/l	20.9	U
OCDF	pg/l	20.9	U
Pentachlorophenol	ug/l	17	U
Perchlorate	ug/l	2.0	U
Phenanthrene	ug/l	0.053	U
Phenol	ug/l	6	U
Phosphorus	mg/l	0.100	U
Potassium	mg/l	0.500	U
Pyrene	ug/l	0.053	U
Selenium	mg/l	0.0020	U
Silver	mg/l	0.00050	U
Sodium	mg/l	1.00	U
Strontium	mg/l	0.0050	U
Thallium	mg/l	0.00050	U
Tin	mg/l	0.0200	U
Titanium	mg/l	0.0100	U
Vanadium	mg/l	0.00050	U
Zinc	mg/l	0.0150	U
Zirconium	mg/l	0.0500	U

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-4 - Subarea 8N Field Blank Results

Sample Name:		FB07-SA8N-QC-042711	
Sample Date:		04/27/2011	
Sample Type		Field Blank	
Analyte	Units	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U
1,1,1-Trichloroethane	ug/l	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	10	U
1,1,2-Trichloroethane	ug/l	5	U
1,1-Dichloroethane	ug/l	5	U
1,1-Dichloroethene	ug/l	5	U
1,1-Dichloropropene	ug/l	5	U
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	pg/l	21.3	U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	pg/l	21.3	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/l	10.6	U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	pg/l	10.6	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/l	10.6	U
1,2,3,4,7,8-Hexachlorodibenzofuran	pg/l	10.6	U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	pg/l	10.6	U
1,2,3,6,7,8-Hexachlorodibenzofuran	pg/l	10.6	U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	pg/l	10.6	U
1,2,3,7,8,9-Hexachlorodibenzofuran	pg/l	10.6	U
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/l	10.6	U
1,2,3,7,8-Pentachlorodibenzofuran	pg/l	10.6	U
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/l	10.6	U
1,2,3-Trichlorobenzene	ug/l	5	U
1,2,3-Trichloropropane	ug/l	5	U
1,2,4-Trimethylbenzene	ug/l	5	U
1,2-Dibromo-3-chloropropane	ug/l	5	U
1,2-Dibromoethane	ug/l	5	U
1,2-Dichloroethane	ug/l	5	U
1,2-Dichloropropane	ug/l	5	U
1,2-Diphenylhydrazine	ug/l	5	U
1,3,5-Trimethylbenzene	ug/l	5	U
1,3,5-Trinitrobenzene	ug/l	0.6	U
1,3-Dichloropropane	ug/l	5	U
1,4-Dioxane	ug/l	2	U
1-Methylnaphthalene	ug/l	0.026	J
2,2-Dichloropropane	ug/l	5	U
2,2-Dichlor-Propionic Acid	ug/l	1.3	U
2,3,4,6,7,8-Hexachlorodibenzofuran	pg/l	10.6	U
2,3,4,7,8-Pentachlorodibenzofuran	pg/l	10.6	U
2,3,7,8-Tetrachlorodibenzofuran	pg/l	2.13	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/l	2.13	U
2,4 DB	ug/l	1	U
2,4,5-T (Trichlorophenoxyacetic Acid)	ug/l	0.052	U
2,4,5-Trichlorophenol	ug/l	5	U
2,4,6-Trichlorophenol	ug/l	5	U
2,4,6-Trinitrotoluene	ug/l	0.6	U
2,4-D (Dichlorophenoxyacetic Acid)	ug/l	0.52	U
2,4-Diamino-6-nitrotoluene	ug/l	0.6	U
2,4-Dichlorophenol	ug/l	5	U
2,4-Dimethylphenol	ug/l	10	U
2,4-Dinitrophenol	ug/l	31	U
2,6-Diamino-4-nitrotoluene	ug/l	0.6	U
2-Amino-4,6-Dinitrotoluene	ug/l	0.6	U
2-Butanone	ug/l	10	U
2-Chloroethyl Vinyl Ether	ug/l	10	U
2-Chloronaphthalene	ug/l	5	U
2-Chlorophenol	ug/l	5	U
2-Chlorotoluene	ug/l	5	U
2-Hexanone	ug/l	10	U
2-Methylnaphthalene	ug/l	0.03	J
2-Methylphenol	ug/l	5	U
2-Nitroaniline	ug/l	5	U
2-Nitrophenol	ug/l	5	U
2-Nitrotoluene	ug/l	0.6	U
2-Propanol	ug/l	1000	U
3,3`-Dichlorobenzidine	ug/l	5	U
3,5-Dimethylphenol	ug/l	10	U
3-Nitroaniline	ug/l	5	U
3-Nitrotoluene	ug/l	1.2	U
4,4'-DDD	ug/l	0.022	U
4,4'-DDE	ug/l	0.022	U
4,4'-DDT	ug/l	0.022	U
4,6-Dinitro-2-Methylphenol	ug/l	16	U
4-Amino-2,6-Dinitrotoluene	ug/l	0.6	U
4-Bromophenyl Phenyl Ether	ug/l	5	U
4-Chloro-3-Methylphenol	ug/l	5	U
4-Chloroaniline	ug/l	5	U
4-Chlorophenyl Phenylether	ug/l	5	U
4-Chlorotoluene	ug/l	5	U
4-Methyl-2-Pentanone	ug/l	10	U
4-Methylphenol	ug/l	5	U
4-Nitroaniline	ug/l	5	U

Table C-4 - Subarea 8N Field Blank Results

Sample Name:		FB07-SA8N-QC-042711	
Sample Date:		04/27/2011	
Sample Type		Field Blank	
Analyte	Units	Concentration	Final Qualifer
4-Nitrophenol	ug/l	31	U
4-Nitrotoluene	ug/l	1.2	U
Acenaphthene	ug/l	0.05	U
Acenaphthylene	ug/l	0.05	U
Acetone	ug/l	20	U
Aldrin	ug/l	0.011	U
Alpha-Bhc	ug/l	0.011	U
Aluminum	mg/l	0.2	U
Aniline	ug/l	5	U
Anthracene	ug/l	0.05	U
Antimony	mg/l	0.001	U
Aroclor 1016	ug/l	0.54	U
Aroclor 1221	ug/l	0.54	U
Aroclor 1232	ug/l	0.54	U
Aroclor 1242	ug/l	0.54	U
Aroclor 1248	ug/l	0.54	U
Aroclor 1254	ug/l	0.54	U
Aroclor 1260	ug/l	0.54	U
Aroclor 1262	ug/l	0.54	U
Aroclor 1268	ug/l	0.54	U
Aroclor 5432	ug/l	0.54	U
Aroclor 5442	ug/l	0.54	U
Aroclor 5460	ug/l	0.54	U
Arsenic	mg/l	0.002	U
Barium	mg/l	0.002	U
Benzene	ug/l	5	U
Benzidine	ug/l	62	U
Benzo(a)anthracene	ug/l	0.05	U
Benzo(a)pyrene	ug/l	0.05	U
Benzo(b)fluoranthene	ug/l	0.05	U
Benzo(g,h,i)perylene	ug/l	0.05	U
Benzo(k)fluoranthene	ug/l	0.05	U
Benzoic Acid	ug/l	16	U
Benzyl Alcohol	ug/l	16	U
Beryllium	mg/l	0.0005	U
Beta-Bhc	ug/l	0.011	U
Bis(2-Chloroethoxy) methane	ug/l	5	U
Bis(2-Chloroethyl) ether	ug/l	5	U
bis(2-Chloroisopropyl) ether	ug/l	5	U
Bis(2-Ethylhexyl) phthalate	ug/l	1	U
Boron	mg/l	0.05	U
Bromobenzene	ug/l	5	U
Bromochloromethane	ug/l	5	U
Bromodichloromethane	ug/l	5	U
Bromoform	ug/l	5	U
Bromomethane	ug/l	5	U
Butylbenzylphthalate	ug/l	1	U
Cadmium	mg/l	0.0005	U
Calcium	mg/l	0.2	U
Carbazole	ug/l	5	U
Carbon tetrachloride	ug/l	5	U
Chlordane	ug/l	0.54	U
Chlorinated Camphene	ug/l	3.2	U
Chlorobenzene	ug/l	5	U
Chloroethane	ug/l	5	U
Chloroform	ug/l	5	U
Chloromethane	ug/l	5	U
Chlorotrifluoroethene	ug/l	5	U
Chromium	mg/l	0.002	U
Chromium (Hexavalent Compounds)	ug/l	10	U
Chrysene	ug/l	0.05	U
cis-1,2-Dichloroethene	ug/l	5	U
cis-1,3-Dichloropropene	ug/l	5	U
Cobalt	mg/l	0.0005	U
Copper	mg/l	0.002	U
Cyanide	mg/l	0.01	U
Delta-BHC	ug/l	0.011	U
Dibenzo(a,h)anthracene	ug/l	0.05	U
Dibenzofuran	ug/l	5	U
Dibromochloromethane	ug/l	5	U
Dibromomethane	ug/l	5	U
Dicamba	ug/l	0.31	U
Dichlorodifluoromethane	ug/l	5	U
Dichlorprop	ug/l	0.52	U
Dieldrin	ug/l	0.022	U
Diethylene Glycol	mg/l	100	U
Diethylphthalate	ug/l	1	U
Dimethylphthalate	ug/l	1	U
Di-N-Butylphthalate	ug/l	1	U
Dinitrobutyl Phenol	ug/l	0.52	U
Di-N-Octyl Phthalate	ug/l	1	U

Table C-4 - Subarea 8N Field Blank Results

Sample Name:		FB07-SA8N-QC-042711	
Sample Date:		04/27/2011	
Sample Type		Field Blank	
Analyte	Units	Concentration	Final Qualifer
EFH (C15-C20)	mg/l	0.63	U
EFH (C21-C30)	mg/l	0.63	U
EFH (C30-C40)	mg/l	0.63	U
EFH (C8-C11)	mg/l	0.63	U
Endosulfan I	ug/l	0.011	U
Endosulfan II	ug/l	0.022	U
Endosulfan Sulfate	ug/l	0.022	U
Endrin	ug/l	0.022	U
Endrin Aldehyde	ug/l	0.11	U
Endrin Ketone	ug/l	0.022	U
Ethanol	ug/l	1000	U
Ethylbenzene	ug/l	5	U
Ethylene Glycol	mg/l	100	U
Fluoranthene	ug/l	0.05	U
Fluorene	ug/l	0.05	U
Fluoride	mg/l	0.1	U
Formaldehyde	ug/l	50	U
Freon 113a	ug/l	5	U
Gamma-Bhc (Lindane)	ug/l	0.011	U
Gasoline Range Organices (C5-C12)	ug/l	50	U
Heptachlor	ug/l	0.011	U
Heptachlor Epoxide	ug/l	0.011	U
Hexachlorobenzene	ug/l	5	U
Hexachlorocyclopentadiene	ug/l	16	U
Hexachloroethane	ug/l	5	U
Indeno(1,2,3-Cd)Pyrene	ug/l	0.05	U
Iron	mg/l	0.2	U
Isophorone	ug/l	5	U
Isopropylbenzene	ug/l	5	U
Isopropyltoluene	ug/l	5	U
Lead	mg/l	0.001	U
Lithium	mg/l	0.02	U
m,p-Xylene	ug/l	5	U
Magnesium	mg/l	0.1	U
Manganese	mg/l	0.005	U
MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	ug/l	1000	U
MCPP	ug/l	210	U
m-Dinitrobenzene	ug/l	0.6	U
Mercury	mg/l	0.0002	UJ
Methanol	ug/l	1000	U
Methoxychlor	ug/l	0.11	U
Methyl tert-Butyl Ether	ug/l	5	U
Methylene chloride	ug/l	5	U
Mirex	ug/l	0.27	U
Molybdenum	mg/l	0.0005	U
m-Terphenyl	mg/l	0.26	U
Naphthalene	ug/l	0.22	
N-Butylbenzene	ug/l	5	U
Nickel	mg/l	0.002	U
Nitrate	mg/l	0.1	U
Nitrate [as N]	mg/l	0.1	U
Nitroglycerin	ug/l	15	U
N-Nitroso-Di-N-Propylamine	ug/l	5	U
N-Nitrosodiphenylamine	ug/l	5	U
N-Propylbenzene	ug/l	5	U
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	ug/l	2	U
o-Terphenyl	mg/l	0.26	U
o-Xylene	ug/l	5	U
Pentachlorophenol	ug/l	16	U
Pentaerythritol Tetranitrate	ug/l	18	U
Phenanthrene	ug/l	0.05	U
Phenol	ug/l	5	U
Phosphorus	mg/l	0.1	U
Potassium	mg/l	0.5	U
Propylene glycol	mg/l	100	U
P-TERPHENYL	mg/l	0.26	U
Pyrene	ug/l	0.05	U
RDX	ug/l	0.6	U
sec-Butylbenzene	ug/l	5	U
Selenium	mg/l	0.002	U
Silver	mg/l	0.0005	U
Silvex (2,4,5-TP)	ug/l	0.052	U
Sodium	mg/l	1	U
Strontium	mg/l	0.005	U
Styrene	ug/l	5	U
tert-Butylbenzene	ug/l	5	U
Tetrachloroethene	ug/l	5	U
Tetryl	ug/l	0.6	U
Thallium	mg/l	0.0005	U
Tin	mg/l	0.02	U
Titanium	mg/l	0.01	U

Table C-4 - Subarea 8N Field Blank Results

	Sample Name:	FB07-SA8N-QC-042711	
	Sample Date:	04/27/2011	
	Sample Type	Field Blank	
Analyte	Units	Concentration	Final Qualifer
Toluene	ug/l	5	U
trans-1,2-Dichloroethene	ug/l	5	U
trans-1,3-Dichloropropene	ug/l	5	U
Trichloroethene	ug/l	5	U
Trichlorofluoromethane	ug/l	5	U
Vanadium	mg/l	0.0005	U
Vinyl Chloride	ug/l	5	U
Zinc	mg/l	0.015	U
Zirconium	mg/l	0.05	U

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-5 - Subarea 8N Trip Blanks Results

Sample Name:		TB-041211		TB-041311		TB-041511		TB-041811		TB-041911		TB-042111		TB-042211		TB-042511		TB-042611		TB-042711	
Sample Date:		04/12/2011		04/13/2011		04/15/2011		04/18/2011		04/19/2011		04/21/2011		04/22/2011		04/25/2011		04/26/2011		04/27/2011	
Sample Type		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/l	5	U	5	U	5	U	5	UJ	5	U	5	UJ	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	UJ	5	U	5	U	5	U	5	U
2-Butanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloroethyl Vinyl Ether	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-Pentanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	ug/l	20	UJ	20	U	20	U	20	UJ	20	U	20	U	20	U	20	U	20	U	20	U
Benzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	UJ	5	U	5	U	5	U	5	U
Bromoform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/l	5	U	5	U	5	U	5	UJ	5	U	5	UJ	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dichlorodifluoromethane	ug/l	5	UJ	5	U	5	U	5	UJ	5	U	5	UJ	5	U	5	U	5	U	5	U
Ethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Freon 113	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Freon 113a	ug/l	5	UJ	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
GRO (C5-C12)	ug/l			50	U	50	U	50	U					50	U	50	U	50	U	50	U
Hexachlorobutadiene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropyltoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl tert-Butyl Ether	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Propylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
o-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
sec-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
tert-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	ug/l	5	UJ	5	U	5	U	5	UJ	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-5 - Subarea 8N Trip Blanks Results

Sample Name:		TB-042811		TB-042911		TB-050211		TB-050311		TB-050411		TB-050511		TB-050611		TB-050911		TB-051011	
Sample Date:		04/28/2011		04/29/2011		05/02/2011		05/03/2011		05/04/2011		05/05/2011		05/06/2011		05/09/2011		05/10/2011	
Sample Type		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloroethyl Vinyl Ether	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-Pentanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	ug/l	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Benzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dichlorodifluoromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Freon 113	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Freon 113a	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
GRO (C5-C12)	ug/l	50	U	50	U	50	U	50	U	50	U	50	U			50	U	50	U
Hexachlorobutadiene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropyltoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl tert-Butyl Ether	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Propylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
o-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
sec-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
tert-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U

ug/L - microgram per liter

U - Compound not detected above the reporting

Table C-5 - Subarea 8N Trip Blanks Results

Sample Name:		TB-051111		TB-051211		TB-051311		TB-052611		TB-052711		TB-060611		TB-060711		TB-060811		TB-060911	
Sample Date:		05/11/2011		05/12/2011		05/13/2011		05/26/2011		05/27/2011		06/06/2011		06/07/2011		06/08/2011		06/09/2011	
Sample Type		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank		Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloroethyl Vinyl Ether	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorotoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-Pentanone	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	ug/l	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Benzene	ug/l	5	U	5	U	5	U	5	U	1	J	5	U	5	U	5	U	5	U
Bromobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dichlorodifluoromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Freon 113	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Freon 113a	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
GRO (C5-C12)	ug/l	50	U	50	U							50	U	50	U	50	U	50	U
Hexachlorobutadiene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Isopropyltoluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl tert-Butyl Ether	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
N-Propylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
o-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
sec-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
tert-Butylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/l	5	U	5	U	5	U	5	U	0.7	J	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U

ug/L - microgram per liter

U - Compound not detected above the reporting

Table C-5 - Subarea 8N Trip Blanks Results

Sample Name:		TB-061011		TB-061711	
Sample Date:		06/10/2011		06/17/2011	
Sample Type		Trip Blank		Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U
1,1,1-Trichloroethane	ug/l	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U	5	U
1,1,2-Trichloroethane	ug/l	5	U	5	U
1,1-Dichloroethane	ug/l	5	U	5	U
1,1-Dichloroethene	ug/l	5	U	5	U
1,1-Dichloropropene	ug/l	5	U	5	U
1,2,3-Trichlorobenzene	ug/l	5	U	5	U
1,2,3-Trichloropropane	ug/l	5	U	5	U
1,2,4-Trichlorobenzene	ug/l	5	U	5	U
1,2,4-Trimethylbenzene	ug/l	5	U	5	U
1,2-Dibromo-3-chloropropane	ug/l	5	U	5	U
1,2-Dibromoethane	ug/l	5	U	5	U
1,2-Dichlorobenzene	ug/l	5	U	5	U
1,2-Dichloroethane	ug/l	5	U	5	U
1,2-Dichloropropane	ug/l	5	U	5	U
1,3,5-Trimethylbenzene	ug/l	5	U	5	U
1,3-Dichlorobenzene	ug/l	5	U	5	U
1,3-Dichloropropane	ug/l	5	U	5	U
1,4-Dichlorobenzene	ug/l	5	U	5	U
1,4-Dioxane	ug/l	2	U	2	U
2,2-Dichloropropane	ug/l	5	U	5	U
2-Butanone	ug/l	10	U	10	U
2-Chloroethyl Vinyl Ether	ug/l	10	U	10	U
2-Chlorotoluene	ug/l	5	U	5	U
2-Hexanone	ug/l	10	U	10	U
4-Chlorotoluene	ug/l	5	U	5	U
4-Methyl-2-Pentanone	ug/l	10	U	10	U
Acetone	ug/l	20	U	20	U
Benzene	ug/l	5	U	5	U
Bromobenzene	ug/l	5	U	5	U
Bromochloromethane	ug/l	5	U	5	U
Bromodichloromethane	ug/l	5	U	5	U
Bromoform	ug/l	5	U	5	U
Bromomethane	ug/l	5	U	5	U
Carbon tetrachloride	ug/l	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U
Chloroethane	ug/l	5	U	5	U
Chloroform	ug/l	5	U	5	U
Chloromethane	ug/l	5	U	5	U
Chlorotrifluoroethene	ug/l	5	U	5	U
cis-1,2-Dichloroethene	ug/l	5	U	5	U
cis-1,3-Dichloropropene	ug/l	5	U	5	U
Dibromochloromethane	ug/l	5	U	5	U
Dibromomethane	ug/l	5	U	5	U
Dichlorodifluoromethane	ug/l	5	U	5	U
Ethylbenzene	ug/l	5	U	5	U
Freon 113	ug/l	10	U	10	U
Freon 113a	ug/l	5	U	5	U
GRO (C5-C12)	ug/l	50	U		
Hexachlorobutadiene	ug/l	5	U	5	U
Isopropylbenzene	ug/l	5	U	5	U
Isopropyltoluene	ug/l	5	U	5	U
m,p-Xylene	ug/l	5	U	5	U
Methyl tert-Butyl Ether	ug/l	5	U	5	U
Methylene chloride	ug/l	5	U	5	U
N-Butylbenzene	ug/l	5	U	5	U
N-Propylbenzene	ug/l	5	U	5	U
o-Xylene	ug/l	5	U	5	U
sec-Butylbenzene	ug/l	5	U	5	U
Styrene	ug/l	5	U	5	U
tert-Butylbenzene	ug/l	5	U	5	U
Tetrachloroethene	ug/l	5	U	5	U
Toluene	ug/l	5	U	5	U
trans-1,2-Dichloroethene	ug/l	5	U	5	U
trans-1,3-Dichloropropene	ug/l	5	U	5	U
Trichloroethene	ug/l	5	U	5	U
Trichlorofluoromethane	ug/l	5	U	5	U
Vinyl Chloride	ug/l	5	U	5	U

ug/L - microgram per liter

U - Compound not detected above the reporting

Table C-6 - Subarea 8S Trip Blanks Results

Sample Name:		TB-092911		TB-102011	
Sample Date:		09/29/2011		10/20/2011	
Sample Type		Trip Blank		Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer
GRO (C5-C12)	ug/l	50	U	50	U
		50	U		
N-Nitrosodimethylamine	ng/kg	33.0	U		
N-Nitrosodimethylamine	ng/l	4.12			
Percent Moisture	%	0.50	U		

ng/kg - nanogram per kilogram

ng/L - nanogram per liter

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-7 - Subarea 8 North Field Duplicate results

				Location	SL-013-SA8N		SL-013-SA8N			SL-027-SA8N		SL-027-SA8N			SL-133-SA8N		SL-133-SA8N			SL-138-SA8N		SL-138-SA8N		
				Sample Name:	DUP01-SA8N-QC-041111		SL-013-SA8N-SS-0.0-0.5		RPD	DUP02-SA8N-QC-041311		SL-027-SA8N-SS-0.0-0.5		RPD	DUP03-SA8N-QC-041411		SL-133-SA8N-SS-0.0-0.5		RPD	DUP04-SA8N-QC-041911		SL-138-SA8N-SS-0.0-0.5		RPD
				Sample Date	04/11/2011		04/11/2011			04/13/2011		04/13/2011			04/14/2011		04/14/2011			04/19/2011		04/19/2011		
				Start Depth:	0		0			0		0			0		0			0		0		
				End Depth:	0.5		0.5			0.5		0.5			0.5		0.5			0.5		0.5		
				Area:	8N		8N			8N		8N			8N		8N			8N		8N		
				Matrix:	SO		SO			SO		SO			SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N			FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit																				
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	18300		19000		-3.75	23600		27200		-14.17			23000			12400		12500		-0.80
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.0937	J	0.130	J	-32.45	0.738	J	0.678	J	8.47			0.117	J		0.123	J	0.218	UJ	200.00
Inorganic	Arsenic	7440-38-2	6020	mg/kg	5.41	J	5.33	J	1.49	6.75	J	7.19	J	-6.31			5.37	J		6.46		5.92		8.72
Inorganic	Barium	7440-39-3	6020	mg/kg	94.3		95.5		-1.26	195	J	198	J	-1.53			132	J		123	J	116	J	5.86
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.646		0.640		0.93	0.895	J	0.970	J	-8.04			0.697			0.630		0.629		0.16
Inorganic	Boron	7440-42-8	6010B	mg/kg	11.2		12.0		-6.90	15.2		23.6		-43.30			6.92			5.42	UJ	5.39	UJ	200.00
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.609	J	0.854	J	-33.49	1.31	J	1.30	J	0.77			0.559	J		0.224	J	0.150	J	39.57
Inorganic	Calcium	7440-70-2	6010B	mg/kg	17800		16400		8.19	25400		26900		-5.74			7990			2280		2180		4.48
Inorganic	Chromium	7440-47-3	6020	mg/kg	23.4	J	27.8	J	-17.19	36.1	J	39.7	J	-9.50			57.1	J		19.1		18.2		4.83
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.78	J	0.94	J	-18.60	1.2	UJ	0.65	J	200.00			0.67	J		1.1	U	1.1	U	--
Inorganic	Cobalt	7440-48-4	6020	mg/kg	12.6	J	11.4	J	10.00	11.4	J	10.7	J	6.33			9.52	J		7.53	J	6.90	J	8.73
Inorganic	Copper	7440-50-8	6020	mg/kg	15.5	J	15.0	J	3.28	54.9	J	57.3	J	-4.28			20.3	J		11.7	J	10.1	J	14.68
Inorganic	Cyanide	57-12-5	9012B	mg/kg											0.58	U	0.59	U	-1.71	0.54	U	0.53	U	1.87
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.9	J	1.5	J	23.53	1.6	J	2.6	J	-47.62			2.8	J		1.1	UJ	1.1	UJ	--
Inorganic	Iron	7439-89-6	6010B	mg/kg	22400		24000		-6.90	48200		29600		47.81			27400			19400		18600		4.21
Inorganic	Lead	7439-92-1	6020	mg/kg	13.0	J	12.3	J	5.53	29.3	J	31.2	J	-6.28			166	J		13.8		12.9		6.74
Inorganic	Lithium	7439-93-2	6010B	mg/kg	21.5		23.4		-8.46	21.6		25.1		-14.99			22.8			25.2		25.5		-1.18
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	5330		5320		0.19	7060		7940		-11.73			6190			4100		4060		0.98
Inorganic	Manganese	7439-96-5	6010B	mg/kg	310		322		-3.80	459		444		3.32			418			306		309		-0.98
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.111	UJ	0.0037	J	200.00	0.0795	J	0.0873	J	-9.35			0.313	J		0.0168	J	0.0181	J	-7.45
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.656		0.468		33.45	0.630	J	0.779	J	-21.15			0.901	J		0.591		0.502		16.29
Inorganic	Nickel	7440-02-0	6020	mg/kg	29.3	J	28.6	J	2.42	26.0	J	28.5	J	-9.17			44.8	J		14.1	J	13.2	J	6.59
Inorganic	Nitrate	14797-55-8	300.0	mg/kg											4.9	J	9.0	J	-58.99	3.7		3.5		5.56
Inorganic	Percent Moisture	MOIST	160.3M	%	14.4		13.9		3.53	14.9		15.2		-1.99	13.5		14.6		-7.83	8.7		8.2		5.92
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	35.0	U	34.8	U	0.57	35.3	U	35.4	U	-0.28			35.1	U		32.9	U	32.7	U	0.61
Inorganic	pH	pH	9045M	pH unit	7.87		8.01		-1.76	8.21		8.27		-0.73			7.20			6.03		5.92		1.84
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	428	J	533	J	-21.85	1430		1580		-9.97			561			439		431		1.84
Inorganic	Potassium	7440-09-7	6010B	mg/kg	3320	J	3140	J	5.57	6340		6680		-5.22			5220			3580		3530		1.41
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.131	J	0.142	J	-8.06	0.200	J	0.216	J	-7.69			0.169	J		0.156	J	0.122	J	24.46
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0613	J	0.0679	J	-10.22	0.502	J	0.298	J	51.00			0.289			0.0477	J	0.0257	J	59.95
Inorganic	Sodium	7440-23-5	6010B	mg/kg	84.0	J	90.9	J	-7.89	219		219		--			108	J		67.8	J	69.8	J	-2.91
Inorganic	Strontium	7440-24-6	6010B	mg/kg	30.8		30.4		1.31	112		111		0.90			27.6			15.5		14.7		5.30
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.289		0.274		5.33	0.359	J	0.340	J	5.44			0.253	J		0.298		0.300		-0.67
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.5	U	11.5	U	--	11.5	U	11.8	U	-2.58			11.6	U		10.8	U	10.8	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1270		1340		-5.36	1350		1360		-0.74			1280			1050		1080		-2.82
Inorganic	Vanadium	7440-62-2	6020	mg/kg	42.4	J	41.7	J	1.66	63.0	J	65.4	J	-3.74			48.4	J		38.9		37.0		5.01
Inorganic	Zinc	7440-66-6	6020	mg/kg	331	J	260	J	24.03	188	J	182	J	3.24			211	J		85.5		79.3		7.52
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.49	J	1.85	J	29.49	6.37		7.09		-10.70			4.34	J		1.51	J	1.84	J	-19.70
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg											270	U	270	U	--	260	U	250	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg											270	U	270	U	--	260	U	250	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg											580	U	590	U	-1.71	550	U	540	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	15	U	15	U	--						14	U	15	U	-6.90	14	U	14	U	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg											580	U	590	U	-1.71	550	U	540	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	15	U	15	UJ	--						14	U	15	U	-6.90	14	U	14	U	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg											1700	U	1800	U	-5.71	3200	U	3300	U	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg											340	U	330	U	2.99	330	U	310	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg											580	U	590	U	-1.71	550	U	540	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg											4.0	U	4.1	U	-2.47	3.8	U	3.8	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg											2700	U	2700	U	--	2600	U	2500	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg											4.0	U	4.1	U	-2.47	3.8	U	3.8	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg											2700	U	2700	U	--	2600	U	2500	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	15	U	15	UJ	--						14	U	15	U	-6.90	14	U	14	U	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg											4.0	U	4.1	U	-2.47	3.8	U	3.8	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg											140	U	130	U	7.41	130	U	120	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	44.9		61.6		-31.36	67.7		104		-42.28			45.4			3.27	J	3.55	J	-8.21
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.55	J	7.59		-31.05	7.56	J	24.4	J	-105.38			10.9			5.43	U	0.804	J	200.00
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.433	J	5.74	U	200.00	0.637	J	1.65	J	-88.59			1.04	J		5.43	UJ	5.42	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.396	J	5.74	U	200.00	0.823	J	0.989	J	-18.32			0.857	J		5.43	U	5.42	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	3.07	J	2.22	J	32.14	1.59	J	2.17	J	-30.85			4.98	J		5.43	U	5.42	U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	1.60	J	2.14	J	-28.88	3.10	J	4.59	J	-38.75			2.13	J		0.477	J	0.490	J	-2.69
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.534	J	5.74	U	200.00	0.665	J	1.09	J	-48.43			1.36	J		5.43	U	5.42	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.741	J	5.74	U	200.00	2.28	J	2.45	J	-7.19			1.64	J		0.549	J	0.556	J	-1.27
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.82	U	5.74	U	1.38	0.270	J	5.77	U	200.00			1.17	J		5.43	U	5.42	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.82	U	5.74	U	1.38	1.18	J	1.27	J	-7.35			0.699	J		5.43	U	5.42	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.372	J	5.74	U	200.00	0.869	J	0.493	J	55.21			3.96	J		0.274	J	0.352	J	-24.92
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.594	J	5.74	U	200.00	0.676	J	0.966	J	-35.32			1.40	J		5.43	U	5.42	U	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.542	J	5.74	U	200.00	0.843	J	0.993	J	-16.34			10.6			0.464	J	0.448	J	3.51
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0869	J	1.15	UJ	200.00	0.358	J	0.434	J	-19.19			1.17	U		1.09	UJ	1.08	UJ	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.250	J	1.15	UJ	200.00	1.24		1.43		-14.23			28.5			0.215	J	0.231	J	-7.17
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	2.0	U	2.0	U	--	200	U	100	U	--			200	U		1.9	U	1.8	U	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-013-SA8N	SL-013-SA8N		SL-027-SA8N	SL-027-SA8N		SL-133-SA8N	SL-133-SA8N		SL-138-SA8N	SL-138-SA8N	
					Sample Name:	DUP01-SA8N-QC-041111	SL-013-SA8N-SS-0.0-0.5		DUP02-SA8N-QC-041311	SL-027-SA8N-SS-0.0-0.5		DUP03-SA8N-QC-041411	SL-133-SA8N-SS-0.0-0.5		DUP04-SA8N-QC-041911	SL-138-SA8N-SS-0.0-0.5	
					Sample Date	04/11/2011	04/11/2011		04/13/2011	04/13/2011		04/14/2011	04/14/2011		04/19/2011	04/19/2011	
					Start Depth:	0	0		0	0		0	0		0	0	
					End Depth:	0.5	0.5	RPD	0.5	0.5	RPD	0.5	0.5	RPD	0.5	0.5	RPD
					Area:	8N	8N		8N	8N		8N	8N		8N	8N	
					Matrix:	SO	SO		SO	SO		SO	SO		SO	SO	
					Sample Type:	FD	N		FD	N		FD	N		FD	N	
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	2.0 U	2.0 U	--	200 U	100 U	--			200 U		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	2.0 U	2.0 U	--	200 U	100 U	--			200 U		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	2.0 U	2.0 U	--	200 U	100 U	--			200 U		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8 J	2.0 UJ	200.00	200 U	100 U	--			1700		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	5.0	5.7	-13.08	200 U	100 U	--			1500		0.89 J	0.86 J	3.43
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	20	22	-9.52	200 U	100 U	--			200 U		0.93 J	1.2 J	-25.35
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	2.0 U	2.0 U	--	200 U	100 U	--			200 U		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	2.0 U	2.0 U	--	200 U	100 U	--			200 U		1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.9 U	3.8 U	2.60	390 U	190 U	--			390 U		3.6 U	3.6 U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.9 U	3.8 U	2.60	390 U	190 U	--			390 U		3.6 U	3.6 U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	10 J	20 J	-66.67	390 U	190 U	--			5100		1.9 J	2.2 J	-14.63
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	462	672 J	-37.04	523	866 J	-49.39			493 J		24.5	28.5	-15.09
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	8.03 J	11.3 J	-33.83	18.7 J	72.7 J	-118.16			21.1		10.9 U	10.8 U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	9.6 U	9.6 U	--	1.4 J	1.3 J	7.41			2.4		1.8 U	1.8 U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100 U	1200 U	-8.70	1200 U	1200 U	--			1200 U		1100 U	1100 U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	9.6 U	9.6 U	--	2.5	1.8 J	32.56			3.3		1.8 U	1.8 U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	380 U	380 U	--	390 U	390 U	--			390 U		360 U	360 U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	570 U	580 U	-1.74	590 U	590 U	--			580 U		540 U	540 U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 UJ	180 UJ	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190 U	190 UJ	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	570 U	580 U	-1.74	590 U	590 U	--			580 U		540 U	540 U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	9.6 U	9.6 U	--	2.0 U	2.0 U	--			1.2 J		1.8 U	1.8 U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	9.6 U	9.6 U	--	0.63 J	0.51 J	21.05			0.66 J		1.8 U	1.8 U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	570 U	580 U	-1.74	590 U	590 U	--			580 U		540 U	540 U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	9.6 U	9.6 U	--	1.5 J	0.82 J	58.62			1.9 U		1.8 U	1.8 U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3800 U	3800 UJ	--	3900 U	3900 UJ	--			3900 R		3600 U	3600 R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg				55 J					20 J				
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	9.6 U	9.6 U	--		4.4						1.8 U	1.8 U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg				66 J									
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	3.9 J	9.6 UJ	200.00		5.1				1.3 J		1.8 UJ	0.77 J	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg				98 J					21 J				
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	6.2 J	9.6 UJ	200.00		12						1.8 UJ	1.8 J	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg				51 J									
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	9.6 U	9.6 U	--		5.1				1.2 J		1.8 U	1.8 U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg				37 J									
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	9.6 U	9.6 U	--		3.7				0.99 J		1.8 UJ	0.86 J	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	570 U	580 U	-1.74	590 U	590 U	--			580 U		540 U	540 U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	570 U	580 U	-1.74	590 U	590 U	--			580 U		540 U	540 U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	23 J	31 J	-29.63						67 J			24 J	
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg				260 J	41 J	145.51					20 U		
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg	190 U	190 U	--						25 J				
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg				8.8 J	21 UJ	200.00					20 U	20 U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			21 J		180 U	180 U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg				91 J					26 J				
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	4.7 J	9.6 UJ	200.00		10						0.42 J	1.5 J	-112.50
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	9.6 U	9.6 U	--	1.3 J	0.98 J	28.07			1.9 U		1.8 U	1.8 U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190 U	190 U	--	200 U	200 U	--			190 U		180 U	180 U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	190 U	190 U	--										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg				21 U	21 U	--			21 U		20 U	20 U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg	190 U	190 U	--										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg				21 U	21 U	--			21 U		20 U	20 U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg	190 U	190 U	--						22 J				
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg				21 U	21 U	--					20 U	20 U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg	190 U	190 U	--										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg				230 J	21 UJ	200.00			21 U		20 U	20 U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg				45 J					41 J				
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	5.7 J	9.6 UJ	200.00		10						1.8 UJ	1.7 J	200.00
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	9.6 U	9.6 U	--	2.0 U	2.0 U	--			0.95 J		1.8 U	1.8 U	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-013-SA8N		SL-013-SA8N			SL-027-SA8N		SL-027-SA8N			SL-133-SA8N		SL-133-SA8N			SL-138-SA8N		SL-138-SA8N		
					Sample Name:	DUP01-SA8N-QC-041111		SL-013-SA8N-SS-0.0-0.5			DUP02-SA8N-QC-041311		SL-027-SA8N-SS-0.0-0.5			DUP03-SA8N-QC-041411		SL-133-SA8N-SS-0.0-0.5			DUP04-SA8N-QC-041911		SL-138-SA8N-SS-0.0-0.5		
					Sample Date	04/11/2011		04/11/2011			04/13/2011		04/13/2011			04/14/2011		04/14/2011			04/19/2011		04/19/2011		
					Start Depth:	0		0			0		0			0		0			0		0		
					End Depth:	0.5		0.5			0.5		0.5			0.5		0.5			0.5		0.5		
					Area:	8N		8N			8N		8N			8N		8N			8N		8N		
					Matrix:	SO		SO			SO		SO			SO		SO			SO		SO		
					Sample Type:	FD		N			FD		N			FD		N			FD		N		
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	570	U	580	U	-1.74	590	U	590	U	--			580	U		540	U	540	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg						47	J													
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	9.6	U	9.6	U	--			3.7					0.93	J		1.8	U	1.8	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	9.6	U	9.6	U	--	4.6		3.9		16.47			4.2			1.8	U	1.8	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg											39.2	J	300	J	-153.77	36.5	U	36.3	UJ	0.55
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	9.6	U	9.6	U	--	2.0	U	2.0	U	--			1.9	U		1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	570	U	580	U	-1.74	590	U	590	U	--			580	U		540	U	540	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg													21	J						
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	9.6	U	9.6	U	--	7.3		4.9		39.34						1.8	UJ	0.96	J	200.00
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	190	U	--	200	U	200	U	--			190	U		180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg						67	J						37	J						
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	5.8	J	9.6	UJ	200.00			7.6								1.8	UJ	1.1	J	200.00
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg																				
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg																				
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg																				
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg																				
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg																				
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg																				
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg																				
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg																				
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg																				
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg																				
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg																				
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg																				
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg																				
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg																				
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg																				
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg																				
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg																				
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg																				
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg																				
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg																				
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg																				
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg																				
Volatiles	2-Butanone	78-93-3	8260B	ug/kg																				
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg																				
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg																				
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg																				
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg																				
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg																				
Volatiles	Acetone	67-64-1	8260B	ug/kg																				
Volatiles	Benzene	71-43-2	8260B	ug/kg																				
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg																				
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg																				
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg																				
Volatiles	Bromoform	75-25-2	8260B	ug/kg																				
Volatiles	Bromomethane	74-83-9	8260B	ug/kg																				
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg																				
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg																				
Volatiles	Chloroethane	75-00-3	8260B	ug/kg																				
Volatiles	Chloroform	67-66-3	8260B	ug/kg																				
Volatiles	Chloromethane	74-87-3	8260B	ug/kg																				
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg																				
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg																				
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg																				
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg																				
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg																				
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg																				
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg								7.0	U		6.9	U	7.0	U	-1.44	1.3	U	1.3	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg								3.6	J		10		9.8		2.02	0.97	J	0.85	J	13.19
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg								31			50		44		12.77	8.6		5.8	J	38.89
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg								170			140		140		--	35		22		45.61
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg								7.0	U		6.9	U	7.0	U	-1.44	1.3	U	1.3	U	--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg																				
Volatiles	Freon 113	76-13-1	8260B	ug/kg																				
Volatiles	Freon 113a	75-88-7	8260B	ug/kg																				
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg																				
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg																				
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg																				
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg																				
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg																				
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg																				
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg																				
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg																				
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg																				
Volatiles	o-Xylene	95-47-6	8260B	ug/kg																				

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-013-SA8N	SL-013-SA8N		SL-027-SA8N	SL-027-SA8N		SL-133-SA8N	SL-133-SA8N		SL-138-SA8N	SL-138-SA8N	
					Sample Name:	DUP01-SA8N-QC-041111	SL-013-SA8N-SS-0.0-0.5		DUP02-SA8N-QC-041311	SL-027-SA8N-SS-0.0-0.5		DUP03-SA8N-QC-041411	SL-133-SA8N-SS-0.0-0.5		DUP04-SA8N-QC-041911	SL-138-SA8N-SS-0.0-0.5	
					Sample Date	04/11/2011	04/11/2011		04/13/2011	04/13/2011		04/14/2011	04/14/2011		04/19/2011	04/19/2011	
					Start Depth:	0	0	RPD	0	0	RPD	0	0	RPD	0	0	RPD
					End Depth:	0.5	0.5		0.5	0.5		0.5	0.5		0.5	0.5	
					Area:	8N	8N		8N	8N		8N	8N		8N	8N	
					Matrix:	SO	SO		SO	SO		SO	SO		SO	SO	
					Sample Type:	FD	N		FD	N		FD	N		FD	N	
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg													
Volatiles	Styrene	100-42-5	8260B	ug/kg													
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg													
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg													
Volatiles	Toluene	108-88-3	8260B	ug/kg													
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg													
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg													
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg													
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg													
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg													

Notes:
ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-7 - Subarea 8 North Field Duplicate results

				Location	SL-120-SA8N		SL-120-SA8N			SL-119-SA8N		SL-119-SA8N			SL-040-SA8N		SL-040-SA8N			SL-018-SA8N		SL-018-SA8N		
				Sample Name:	DUP05-SA8N-QC-042011		SL-120-SA8N-SS-0.0-0.5		RPD	DUP06-SA8N-QC-042111		SL-119-SA8N-SS-0.0-0.5		RPD	DUP06-SA8N-QC-042911		SL-040-SA8N-SB-4.0-5.0		RPD	DUP07-SA8N-QC-050311		SL-018-SA8N-SB-4.0-5.0		RPD
				Sample Date	04/20/2011		04/20/2011			04/21/2011		04/21/2011			04/29/2011		04/29/2011			05/03/2011		05/03/2011		
				Start Depth:	0		0			0		0			0		4			4		4		
				End Depth:	0.5		0.5			0.5		0.5			0.5		5			5		5		
				Area:	8N		8N			8N		8N			8N		8N			8N		8N		
				Matrix:	SO		SO			SO		SO			SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N			FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit																				
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	23600		24500		-3.74	14600		15200		-4.03	33000		31900		3.39	25900		24600		5.15
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.216	J	0.308	J	-35.11	0.210	UJ	0.209	UJ	0.48	0.240	J	0.303	J	-23.20	0.384	J	0.278	J	32.02
Inorganic	Arsenic	7440-38-2	6020	mg/kg	5.86	J	6.25	J	-6.44	5.09		5.13		-0.78	6.52		5.99		8.47	7.24	J	7.52	J	-3.79
Inorganic	Barium	7440-39-3	6020	mg/kg	113	J	129	J	-13.22	110		95.2		14.42	138	J	130	J	5.97	142	J	136	J	4.32
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.658	J	0.758	J	-14.12	0.547		0.519		5.25	0.845	J	0.800	J	5.47	0.944	J	0.970	J	-2.72
Inorganic	Boron	7440-42-8	6010B	mg/kg	10.6		9.27		13.39	3.04	J	3.66	J	-18.51	8.74		7.56		14.48	5.57	UJ	3.14	J	200.00
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.438	J	0.466	J	-6.19	0.178		0.128		32.68	0.281		0.279		0.71	0.112	UJ	0.116	J	200.00
Inorganic	Calcium	7440-70-2	6010B	mg/kg	6500		6510		-0.15	3270		3370		-3.01	11700	J	10400	J	11.76	5490	J	3410	J	46.74
Inorganic	Chromium	7440-47-3	6020	mg/kg	24.0	J	28.3	J	-16.44	26.2	J	23.5	J	10.87	34.0	J	31.4	J	7.95	30.8	J	30.2	J	1.97
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.91	J	0.89	J	2.22	1.1	UJ	0.43	J	200.00	0.47	J	0.56	J	-17.48	1.2	U	1.1	U	8.70
Inorganic	Cobalt	7440-48-4	6020	mg/kg	12.6	J	9.63	J	26.72	8.11		6.61		20.38	12.0	J	10.7	J	11.45	11.7	J	10.5	J	10.81
Inorganic	Copper	7440-50-8	6020	mg/kg	17.0	J	17.8	J	-4.60	11.9	J	10.1	J	16.36	19.0	J	16.5	J	14.08	15.5	J	12.5	J	21.43
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.54	U	0.53	U	1.87			0.53	U											
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.3		1.6		-20.69	1.9	J	1.4	J	30.30	1.7		1.6		6.06	8.1	J	8.0	J	1.24
Inorganic	Iron	7439-89-6	6010B	mg/kg	25400		26600		-4.62	22000		22400		-1.80	37700		37900		-0.53	32700		29700		9.62
Inorganic	Lead	7439-92-1	6020	mg/kg	20.8	J	20.4	J	1.94	8.66	J	7.08	J	20.08	10.4	J	9.31	J	11.06	9.20	J	9.29	J	-0.97
Inorganic	Lithium	7439-93-2	6010B	mg/kg	24.7		26.1		-5.51	26.2		27.5		-4.84	29.1		28.8		1.04	25.7		24.3		5.60
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	5280		6290		-17.46	6220		6160		0.97	8010		7890		1.51	7020		5330		27.37
Inorganic	Manganese	7439-96-5	6010B	mg/kg	322	J	371	J	-14.14	301		311		-3.27	494		493		0.20	291	J	458	J	-44.59
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0556	J	0.0277	J	66.99	0.0221	J	0.0190	J	15.09	0.117	U	0.115	U	1.72	0.0056	J	0.110	UJ	200.00
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.679		0.603		11.86	0.449		0.452		-0.67	0.505		0.359		33.80	0.431	J	0.627	J	-37.05
Inorganic	Nickel	7440-02-0	6020	mg/kg	16.6	J	18.3	J	-9.74	16.7		13.9		18.30	22.6	J	20.9	J	7.82	25.6	J	19.3	J	28.06
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	2.8		3.6		-25.00			1.5	J											
Inorganic	Percent Moisture	MOIST	160.3M	%	6.7		6.1		9.38			6.4					16.5					11.9		
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.2	U	31.9	U	0.94	32.2	U	32.1	U	0.31	36.0	U	35.9	U	0.28	34.8	U	34.1	U	--
Inorganic	pH	pH	9045M	pH unit	7.00		7.80		-10.81	6.93		6.83		1.45	7.73		7.89		-2.05	7.84		7.84		--
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	463	J	467	J	-0.86	459		485		-5.51	357		356		0.28	237	J	108	J	74.78
Inorganic	Potassium	7440-09-7	6010B	mg/kg	4010	J	4980	J	-21.58	3680	J	3760	J	-2.15	5270		5260		0.19	1870		2470		-27.65
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.193	J	0.165	J	15.64	0.166	J	0.171	J	-2.97	0.222	J	0.251	J	-12.26	0.450	UJ	0.445	UJ	--
Inorganic	Silver	7440-22-4	6020	mg/kg	0.106	J	0.0736	J	36.08	0.0469	J	0.0481	J	-2.53	0.0453	J	0.0278	J	47.88	0.0754	J	0.0574	J	27.11
Inorganic	Sodium	7440-23-5	6010B	mg/kg	94.9	J	120		-23.36	82.1	J	89.8	J	-8.96	108	J	113	J	-4.52	536		425		23.10
Inorganic	Strontium	7440-24-6	6010B	mg/kg	32.9		32.7		0.61	15.7		16.8		-6.77	47.0		45.6		3.02	29.2		22.7		25.05
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.310		0.324		-4.42	0.270		0.266		1.49	0.402		0.306		27.12	0.353		0.347		1.71
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.7	U	10.2	U	4.78	10.6	U	10.5	U	0.95	12.0	U	11.9	U	0.84	11.1	U	11.2	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1260		1270		-0.79	1190		1220		-2.49	1560		1290		18.95	1050		1170		-10.81
Inorganic	Vanadium	7440-62-2	6020	mg/kg	44.0	J	50.4	J	-13.56	43.7	J	39.4	J	10.35	63.5	J	55.6	J	13.27	53.5	J	53.9	J	-0.74
Inorganic	Zinc	7440-66-6	6020	mg/kg	118	J	121	J	-2.51	70.2		61.1		13.86	75.8	J	73.1	J	3.63	68.1	J	59.3	J	13.81
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	5.36	U	5.12	U	4.58	5.31	U	5.24	U	1.33	7.08		6.47		9.00	5.79		5.27	J	9.40
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	260	U	260	U	--			240	U											
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	260	U	260	U	--			240	U											
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	540	U	530	U	1.87			530	U											
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	13	U	13	U	--			13	U							12	U			
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	540	U	530	U	1.87			530	U											
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	13	U	13	U	--			13	U							12	U			
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1600	U	1600	U	--			1000	J											
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	320	U	320	U	--			300	U											
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	540	U	530	U	1.87			530	U											
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.7	U	3.7	U	--			3.7	U											
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2600	U	2600	U	--			2400	U											
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.7	U	3.7	U	--			3.7	U											
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2600	U	2600	U	--			2400	U											
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	13	U	13	U	--			13	U							12	U			
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.7	U	3.7	U	--			3.7	U											
Misc. Organics	RDX	121-82-4	8330A	ug/kg	130	U	130	U	--			120	U											
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	130	U	130	U	--			120	U											
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	338	J	166	J	68.25	17.0		14.6		15.19	5.95	U	5.94	U	--	5.78	U	5.60	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	22.2		15.0		38.71	2.17	J	2.14	J	1.39	5.95	UJ	5.94	UJ	--	5.78	U	5.60	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	1.83	J	1.51	J	19.16	5.32	U	5.34	U	-0.38	5.95	UJ	5.94	UJ	--	5.78	U	5.60	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.939	J	1.02	J	-8.27	5.32	UJ	0.204	J	200.00	5.95	UJ	0.138	J	200.00	5.78	UJ	5.60	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	2.62	J	2.27	J	14.31	0.473	J	0.476	J	-0.63	5.95	UJ	5.94	UJ	--	0.290	J	5.60	UJ	200.00
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	7.23		4.88	J	38.81	0.490	J	0.568	J	-14.74	5.95	UJ	0.180	J	200.00	5.78	UJ	5.60	UJ	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	1.29	J	0.970	J	28.32	5.32	UJ	5.34	UJ	--	5.95	UJ	0.196	J	200.00	5.78	UJ	5.60	UJ	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	2.88	J	2.05	J	33.67	5.32	U	0.358	J	200.00	0.253	J	0.303	J	-17.99	0.118	J	0.0775	J	41.43
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.876	J	0.689	J	23.90	0.152	J	0.185	J	-19.58	5.95	U	0.457	J	200.00	5.78	U	5.60	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.769	J	0.395	J	64.26	5.32	UJ	5.34	UJ	--	5.95	UJ	0.269	J	200.00	0.164	J	0.0338	J	131.65
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	4.85	J	0.883	J	138.39	5.32	UJ	0.262	J	200.00	5.95	UJ	0.299	J	200.00	0.358	J	5.60	UJ	200.00
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	1.28	J	0.948	J	29.80	5.32	U	5.34	U	--	5.95	UJ	5.94	UJ	--	5.78	U	5.60	U	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	1.78	J	1.59	J	11.28	0.382	J	0.485	J	-23.76	5.95	UJ	5.94	UJ	--	5.78	UJ	5.60	UJ	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0542	J	0.0445	J	19.66	0.0250	J	0.0702	J	-94.96	1.19	UJ	1.19	UJ	--	0.119	J	1.12	UJ	200.00
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	2.51		0.453	J	138.85	1.06	UJ	0.114	J	200.00	1.19	UJ	1.19	UJ	--	0.111	J	1.12	UJ	200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-120-SA8N		SL-120-SA8N			SL-119-SA8N			SL-119-SA8N			SL-040-SA8N			SL-040-SA8N			SL-018-SA8N			SL-018-SA8N		
					Sample Name:	DUP05-SA8N-QC-042011		SL-120-SA8N-SS-0.0-0.5		RPD	DUP06-SA8N-QC-042111			SL-119-SA8N-SS-0.0-0.5		RPD	DUP06-SA8N-QC-042911			SL-040-SA8N-SB-4.0-5.0		RPD	DUP07-SA8N-QC-050311			SL-018-SA8N-SB-4.0-5.0		RPD
					Sample Date	04/20/2011		04/20/2011			04/21/2011			04/21/2011			04/29/2011			04/29/2011			05/03/2011			05/03/2011		
					Start Depth:	0		0			0			0			0			4			4			4		
					End Depth:	0.5		0.5			0.5			0.5			0.5			5			5			5		
					Area:	8N		8N			8N			8N			8N			8N			8N			8N		
					Matrix:	SO		SO			SO			SO			SO			SO			SO			SO		
					Sample Type:	FD		N			FD			N			FD			N			FD			N		
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg		75		56		29.01	1.3	J	0.82	J	45.28	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg		21		17		21.05	1.6	J	0.96	J	50.00	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg		18	U	9.0	U	--	3.6	U	1.8	U	--	2.0	U	2.0	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg		35	U	17	U	--	7.1	U	3.5	U	--	4.0	U	4.0	U	--	3.8	U	3.7	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg		35	U	17	U	--	7.1	U	3.5	U	--	4.0	U	4.0	U	--	3.8	U	3.7	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg		35	U	17	U	--	7.1	UJ	4.0	J	200.00	4.0	U	4.0	U	--	3.8	U	3.7	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg		3760	J	2070	J	57.98	206		186	J	10.20	11.9	U	2.43	J	200.00	11.6	U	11.2	U	--
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg		62.6		40.1		43.82	4.91	J	4.33	J	12.55	11.9	U	11.9	U	--	11.6	U	11.2	U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg		3.8	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg		1100	U	1100	U	--	1100	UJ	1100	UJ	--	1200	U	1200	U	--	1200	U	1100	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg		6.0	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg		350	U	350	U	--	350	U	350	U	--	400	U	400	U	--	390	U	380	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg		530	U	530	U	--	530	U	530	UJ	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg		530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg		37	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg		8.9	U	8.9	U	--	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg		530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg		89	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg		3500	U	3500	R	--	3500	U	3500	R	--	4000	U	4000	U	--	3900	U	3800	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg																					
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg		390	J	8.9	UJ	200.00	0.79	J	1.4	J	-55.71	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg																					
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg		340	J	3.6	J	195.81	0.94	J	1.8	J	-62.77	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg																					
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg		570	J	8.1	J	194.40	2.0	J	2.6	J	-26.09	0.97	J	2.0	UJ	200.00	1.9	U	1.9	U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg																					
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg		87	J	4.2	J	181.58	0.97	J	1.8	J	-59.93	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg																					
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg		320	J	8.9	UJ	200.00	0.75	J	0.75	J	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg		530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg		530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg		40	J	28	J	35.29	57	J				400	U								
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg									56					21	U		21	U	20	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg		180	U	180	U	--															
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg							13	J	19	UJ	-37.50	22	U	21	U	4.65	21	U	20	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg																					
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg		480	J	6.9	J	194.33	1.4	J	2.2		-44.44	0.74	J	2.0	UJ	200.00	1.9	U	1.9	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg		43	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg		180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg		180	U	180	U	--															
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg							19	UJ	8.9	J	200.00	22	U	21	U	4.65	21	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg		180	U	180	U	--															
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg							19	U	19	U	--	22	U	21	U	4.65	21	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg		38	J	180	UJ	200.00															
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg							19	U	19	U	--	22	U	21	U	4.65	21	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg		180	U	180	U	--															
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg							19	UJ	19	UJ	--	9.5	J	9.1	J	4.30	8.9	J	9.0	J	-1.12
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg																					
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg		1000	J	9.5	J	196.24	1.6	J	2.3		-35.90	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg		41	J	8.9	UJ	200.00	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-120-SA8N		SL-120-SA8N			SL-119-SA8N		SL-119-SA8N			SL-040-SA8N		SL-040-SA8N			SL-018-SA8N		SL-018-SA8N		
					Sample Name:	DUP05-SA8N-QC-042011		SL-120-SA8N-SS-0.0-0.5			DUP06-SA8N-QC-042111		SL-119-SA8N-SS-0.0-0.5			DUP06-SA8N-QC-042911		SL-040-SA8N-SB-4.0-5.0			DUP07-SA8N-QC-050311		SL-018-SA8N-SB-4.0-5.0		
					Sample Date	04/20/2011		04/20/2011			04/21/2011		04/21/2011			04/29/2011		04/29/2011			05/03/2011		05/03/2011		
					Start Depth:	0		0			0		0			0		4			4		4		
					End Depth:	0.5		0.5			0.5		0.5			0.5		5			5		5		
					Area:	8N		8N			8N		8N			8N		8N			8N		8N		
					Matrix:	SO		SO			SO		SO			SO		SO			SO		SO		
					Sample Type:	FD		N			FD		N			FD		N			FD		N		
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg																				
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	120	J	8.9	UJ	200.00	1.8	UJ	1.0	J	200.00	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	7.6	J	8.9	UJ	200.00	1.8	U	1.8	U	--	0.83	J	2.0	UJ	200.00	1.9	U	1.9	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	58.8	J	149	J	-86.81			101	J											
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	8.9	U	8.9	U	--	1.8	U	1.8	U	--	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	530	U	530	U	--	530	U	530	U	--	600	U	600	U	--	580	U	570	U	1.74
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg																				
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	630	J	5.4	J	196.60	0.87	J	1.4	J	-46.70	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--	180	U	180	U	--	200	U	200	U	--	190	U	190	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg																				
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	630	J	6.6	J	195.85	1.3	J	1.7	J	-26.67	2.0	U	2.0	U	--	1.9	U	1.9	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg											14	U	15	U	--	15	U	14	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg											8.2	U	10	U	--	7.9	U	8.4	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg											8.2	U	10	U	--	7.9	U	8.4	U	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg											8.2	U	10	U	--	7.9	U	8.4	U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg											8.2	UJ	10	UJ	--	7.9	U	8.4	U	--
Volatiles	Benzene	71-43-2	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Bromoform	75-25-2	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Chloroform	67-66-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg											5.1	U	6.2	U	--	4.9	U	5.2	U	--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	26	U	13	U	--			1.3	U		1.4	U	1.4	U	--					
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	26	U	13	U	--			2.8	J		1.4	U	1.4	U	--					
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	62		48		25.45			12			1.4	UJ	1.7	J	200.00					
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	240		200		18.18			30			0.96	J	4.0	J	-122.58					
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	26	U	13	U	--			1.3	U		1.4	U	1.4	U	--					
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Freon 113	76-13-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg											5.1	U	6.2	U	--	4.9	U	5.2	U	--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg											1.0	U	1.0	U	--					
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg											22		14	J	44.44	10		12		-18.18
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg											4.1	U	5.0	U	--	3.9	U	4.2	U	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-120-SA8N	SL-120-SA8N		SL-119-SA8N	SL-119-SA8N		SL-040-SA8N	SL-040-SA8N		SL-018-SA8N	SL-018-SA8N	
					Sample Name:	DUP05-SA8N-QC-042011	SL-120-SA8N-SS-0.0-0.5		DUP06-SA8N-QC-042111	SL-119-SA8N-SS-0.0-0.5		DUP06-SA8N-QC-042911	SL-040-SA8N-SB-4.0-5.0		DUP07-SA8N-QC-050311	SL-018-SA8N-SB-4.0-5.0	
					Sample Date	04/20/2011	04/20/2011		04/21/2011	04/21/2011		04/29/2011	04/29/2011		05/03/2011	05/03/2011	
					Start Depth:	0	0	RPD	0	0	RPD	0	4	RPD	4	4	RPD
					End Depth:	0.5	0.5		0.5	0.5		0.5	5		5	5	
					Area:	8N	8N		8N	8N		8N	8N		8N	8N	
					Matrix:	SO	SO		SO	SO		SO	SO		SO	SO	
					Sample Type:	FD	N		FD	N		FD	N		FD	N	
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Styrene	100-42-5	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Toluene	108-88-3	8260B	ug/kg								4.1 U	5.0 U	--	3.9 UJ	4.2 UJ	--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg								4.1 U	5.0 U	--	3.9 U	4.2 U	--

Notes:
ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-7 - Subarea 8 North Field Duplicate results

				Location	SL-141-SA8N		SL-141-SA8N			SL-002-SA8N		SL-002-SA8N			SL-076-SA8N		SL-076-SA8N		
				Sample Name:	DUP08-SA8N-QC-050911		SL-141-SA8N-SB-4.0-5.0		RPD	DUP09-SA8N-QC-052611		SL-002-SA8N-SB-4.0-5.0		RPD	DUP10-SA8N-QC-060811		SL-076-SA8N-SB-4.0-5.0		RPD
				Sample Date	05/09/2011		05/09/2011			05/26/2011		05/26/2011			06/08/2011		06/08/2011		
				Start Depth:	4		4			4		4			4		4		
				End Depth:	5		5			5		5			5		5		
				Area:	8N		8N			8N		8N			8N		8N		
				Matrix:	SO		SO			SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit															
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	23200		22300		3.96	28700		28300		1.40	24700		24500		0.81
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.323	J	0.236	J	31.13	0.129	J	0.140	J	-8.18	0.201	J	0.275	J	-31.09
Inorganic	Arsenic	7440-38-2	6020	mg/kg	6.87	J	6.00	J	13.52	6.89	J	6.98	J	-1.30	11.5	J	9.52	J	18.84
Inorganic	Barium	7440-39-3	6020	mg/kg	113	J	92.9	J	19.52	129	J	113	J	13.22	165		119		32.39
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.716	J	0.594	J	18.63	0.889		0.842		5.43	1.07	J	0.872	J	20.39
Inorganic	Boron	7440-42-8	6010B	mg/kg	8.47		7.50		12.15	10.8		11.3		-4.52	4.54	J	4.48	J	1.33
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.147		0.162		-9.71	0.284		0.229		21.44	0.113	J	0.0781	J	36.53
Inorganic	Calcium	7440-70-2	6010B	mg/kg	26500	J	30800	J	-15.01	10100		14300		-34.43	2430		2430		--
Inorganic	Chromium	7440-47-3	6020	mg/kg	33.1	J	27.7	J	17.76	33.6	J	31.8	J	5.50	22.3	J	18.8	J	17.03
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.2	U	1.2	U	--	0.38	J	0.49	J	-25.29	0.48	J	0.51	J	-6.06
Inorganic	Cobalt	7440-48-4	6020	mg/kg	11.2	J	9.29	J	18.64	13.6		10.6		24.79	8.70	J	6.63	J	27.01
Inorganic	Copper	7440-50-8	6020	mg/kg	17.4	J	14.7	J	16.82	18.5		16.9		9.04	12.6	J	10.2	J	21.05
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.57	U	0.58	U	-1.74						0.56	U	0.54	U	3.64
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.9	J	3.5	J	-59.26	4.3	J	4.6	J	-6.74	2.6	J	2.5	J	3.92
Inorganic	Iron	7439-89-6	6010B	mg/kg	31500		30800		2.25	36000		35600		1.12	23100		23200		-0.43
Inorganic	Lead	7439-92-1	6020	mg/kg	9.52	J	7.39	J	25.19	11.7	J	10.2	J	13.70	9.71	J	7.66	J	23.60
Inorganic	Lithium	7439-93-2	6010B	mg/kg	33.3		32.1		3.67	27.3		26.0		4.88	31.4		31.3		0.32
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	7900		7970		-0.88	8080		7900		2.25	4370		4360		0.23
Inorganic	Manganese	7439-96-5	6010B	mg/kg	379		362		4.59	303		430		-34.65	230	J	280	J	-19.61
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.112	U	0.118	U	--	0.111	U	0.118	U	--	0.110	U	0.107	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.424		0.398		6.33	0.396		0.327		19.09	1.45	J	1.18	J	20.53
Inorganic	Nickel	7440-02-0	6020	mg/kg	19.5	J	16.9	J	14.29	28.5	J	23.0	J	21.36	20.0	J	16.0	J	22.22
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	9.8	J	2.0	J	132.20						2.0	J	1.5	J	28.57
Inorganic	Percent Moisture	MOIST	160.3M	%	15.2		16.8		-10.00			16.3			11.6		11.4		1.74
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	35.4	U	36.1	U	--	35.4	U	35.8	U	--	33.9	U	33.9	U	--
Inorganic	pH	pH	9045M	pH unit	7.91		8.05		-1.75	8.15		8.19		-0.49	6.87		6.90		-0.44
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	639		647		-1.24	294		299		-1.69	240		238		0.84
Inorganic	Potassium	7440-09-7	6010B	mg/kg	6140		5720		7.08	3730	J	3770	J	-1.07	2150		2160		-0.46
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.282	J	0.289	J	-2.45	0.140	J	0.147	J	-4.88	0.128	J	0.127	J	0.78
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0342	J	0.0290	J	16.46	0.0304	J	0.0264	J	14.08	0.0883	J	0.0697	J	23.54
Inorganic	Sodium	7440-23-5	6010B	mg/kg	265		303		-13.38	124		119		4.12	134		122		9.38
Inorganic	Strontium	7440-24-6	6010B	mg/kg	59.8		58.4		2.37	50.0		51.1		-2.18	16.9		16.8		0.59
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.364		0.281		25.74	0.378		0.334		12.36	0.406	J	0.333	J	19.76
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.3	U	11.9	U	-5.17	11.6	U	11.9	U	--	11.0	U	11.1	U	-0.90
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1440		1350		6.45	1380		1460		-5.63	1190		1210		-1.67
Inorganic	Vanadium	7440-62-2	6020	mg/kg	75.2	J	62.3	J	18.76	68.6	J	63.9	J	7.09	49.0	J	40.1	J	19.98
Inorganic	Zinc	7440-66-6	6020	mg/kg	78.9	J	69.4	J	12.81	78.9		70.3		11.53	85.1		62.6		30.47
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	6.58		5.89	J	11.07	3.92	J	4.41	J	-11.76	3.14	J	3.47	J	-9.98
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	140	U	140	UJ	--						130	U	130	UJ	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	280	U	280	U	--						250	U	270	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	280	U	280	U	--						250	U	270	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	590	U	600	U	--						570	U	560	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	140	U	140	U	--						130	U	130	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	12	U	12	UJ	--	12	U	12	UJ	--	11	U	11	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	590	U	600	U	--						570	U	560	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	12	U	12	UJ	--	12	U	12	U	--	11	U	11	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1800	U	1800	U	--						1700	U	1700	U	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	350	U	350	UJ	--						310	U	330	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	140	U	140	U	--						130	U	130	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	590	U	600	U	--						570	U	560	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	4.1	U	4.2	U	--						4.0	U	4.0	UJ	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	140	U	140	U	--						130	U	130	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2800	U	2800	UJ	--						2500	U	2700	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	4.1	U	4.2	U	--						4.0	U	4.0	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2800	U	2800	U	--						2500	U	2700	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	12	U	12	UJ	--	12	U	12	U	--	11	U	11	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	4.1	U	4.2	U	--						4.0	U	4.0	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	140	U	140	UJ	--						130	U	130	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	140	U	140	U	--						130	U	130	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	3.05	J	5.95	UJ	200.00	5.86	UJ	5.87	UJ	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.78	U	5.95	U	--	5.86	UJ	5.87	UJ	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.78	UJ	5.95	UJ	--	5.86	U	5.87	U	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.78	UJ	0.168	J	200.00	5.86	UJ	5.87	UJ	--	5.53	UJ	5.54	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.78	U	5.95	U	--	5.86	U	5.87	U	--	0.550	J	0.593	J	-7.52
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.78	U	5.95	U	--	5.86	U	5.87	U	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.78	U	0.192	J	187.14	5.86	U	5.87	U	--	5.53	UJ	0.0805	J	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.268	J	0.336	J	-22.52	5.86	UJ	5.87	UJ	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.78	U	5.95	U	--	5.86	U	5.87	U	--	5.53	U	5.54	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.201	J	0.332	J	-49.16	5.86	U	5.87	U	--	5.53	UJ	0.0871	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.78	U	5.95	U	--	5.86	U	5.87	U	--	1.96	J	0.167	J	168.59
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.78	U	5.95	U	--	5.86	UJ	5.87	UJ	--	5.53	UJ	5.54	UJ	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.78	UJ	5.95	UJ	--	5.86	U	5.87	U	--	5.53	UJ	0.369	J	200.00
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.16	U	1.19	U	--	1.17	UJ	1.17	UJ	--	1.11	UJ	1.11	UJ	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0244	J	0.0838	J	-109.80	1.17	UJ	0.0368	J	200.00	0.514	J	0.118	J	125.32
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	2.0	U	2.0	U	--	2.0	U	2.0	U	--	1.9	UJ	1.9	UJ	--

Table C-7 - Subarea 8 North Field Duplicate results

					Location	SL-141-SA8N	SL-141-SA8N	RPD	SL-002-SA8N	SL-002-SA8N	RPD	SL-076-SA8N	SL-076-SA8N	RPD
					Sample Name:	DUP08-SA8N-QC-050911	SL-141-SA8N-SB-4.0-5.0		DUP09-SA8N-QC-052611	SL-002-SA8N-SB-4.0-5.0		DUP10-SA8N-QC-060811	SL-076-SA8N-SB-4.0-5.0	
					Sample Date	05/09/2011	05/09/2011		05/26/2011	05/26/2011		06/08/2011	06/08/2011	
					Start Depth:	4	4		4	4		4	4	
					End Depth:	5	5		5	5		5	5	
					Area:	8N	8N		8N	8N		8N	8N	
					Matrix:	SO	SO		SO	SO		SO	SO	
					Sample Type:	FD	N		FD	N		FD	N	
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 UJ	1.9 UJ	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 UJ	1.9 UJ	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	2.4	3.4 J	-34.48
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	2.0 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.9 U	4.0 U	--	3.9 U	3.9 U	--	3.7 U	3.7 U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.9 U	4.0 U	--	3.9 U	3.9 U	--	3.7 U	3.7 U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.9 U	4.0 U	--	3.9 U	3.9 U	--	3.7 UJ	3.7 UJ	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	49.0 J	6.16 J	155.33	11.7 UJ	11.7 UJ	--	16.0	12.7	23.00
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.6 U	11.9 U	--	11.7 U	11.7 U	--	11.1 U	11.1 U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 UJ	190 UJ	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.9 U	2.0 UJ	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1200 U	1200 UJ	--	1200 U	1200 U	--	1100 U	1100 U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.9 U	2.0 UJ	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 UJ	190 UJ	--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	390 U	400 U	--	390 U	400 U	--	380 U	370 U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	590 U	600 U	--	590 U	600 U	--	560 U	560 U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	590 U	600 U	--	590 U	600 U	--	560 U	560 U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	590 U	600 U	--	590 U	600 U	--	560 U	560 U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3900 U	4000 U	--	3900 U	4000 U	--	3800 U	3700 R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg									
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg									
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg									
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg									
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg									
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	590 U	600 U	--	590 U	600 U	--	560 U	560 U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	590 U	600 U	--	590 U	600 U	--	560 U	560 UJ	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 UJ	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg							380 UJ	370 UJ	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	21 U	21 U	--	12 J	22 UJ	200.00			
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg									
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21 U	21 U	--	21 U	22 U	--	20 U	20 U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg									
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	200 U	200 U	--	200 U	200 U	--	190 U	190 U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg									
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	21 U	21 U	--	21 U	22 U	--	20 U	20 U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg									
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21 U	21 U	--	21 U	22 U	--	20 U	20 U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg									
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21 U	21 U	--	21 U	22 U	--	20 U	20 U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg		200 U							
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21 U			21 U	22 U	--	20 U	20 U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg									
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9 U	2.0 U	--	2.0 U	2.0 U	--	1.9 U	1.9 U	--